If you plan to submit a bid directly to the Department of Transportation

PREQUALIFICATION

Any contractor who desires to become pre-qualified to bid on work advertised by IDOT must submit the properly completed pre-qualification forms to the Bureau of Construction no later that 4:30 p.m. prevailing time twenty-one days prior to the letting of interest. This pre-qualification requirement applies to first time contractors, contractors renewing expired ratings, contractors maintaining continuous pre-qualification or contractors requesting revised ratings. To be eligible to bid, existing pre-qualification ratings must be effective through the date of letting.

REQUESTS FOR AUTHORIZATION TO BID

Contractors downloading and/or ordering CD-ROM's and are wanting to bid on items included in a particular letting must submit the properly completed "Request for Authorization to Bid/or Not For Bid Status" (BDE 124INT) and the ORIGINAL "Affidavit of Availability" (BC 57) to the proper office no later than 4:30 p.m. prevailing time, three (3) days prior to the letting date.

WHO CAN BID?

Bids will be accepted from only those companies that request and receive written **Authorization to Bid** from IDOT's Central Bureau of Construction.

WHAT CONSTITUTES WRITTEN AUTHORIZATION TO BID?: When a prospective prime bidder submits a "Request for Authorization to Bid/or Not For Bid Status" (BDE 124INT) he/she must indicate at that time which items are being requested For Bidding purposes. Only those items requested For Bidding will be analyzed. After the request has been analyzed, the bidder will be issued a Proposal Denial and/or Authorization Form, approved by the Central Bureau of Construction, that indicates which items have been approved For Bidding. If Authorization to Bid cannot be approved, the Proposal Denial and/or Authorization Form will indicate the reason for denial.

ABOUT AUTHORIZATION TO BID: Firms that have not received an authorization form within a reasonable time of complete and correct original document submittal should contact the department as to status. This is critical in the week before the letting. These documents must be received three days before the letting date. Firms unsure as to authorization status should call the Prequalification Section of the Bureau of Construction at the number listed at the end of these instructions.

ADDENDA: It is the contractor's responsibility to determine which, if any, addenda pertains to any project they may be bidding. Failure to incorporate all relevant addenda may cause the bid to be declared unacceptable.

Each addendum will be placed with the contract number. Addenda will also be placed on the Addendum/Revision Checksheet and each subscription service subscriber will be notified by e-mail of each addendum issued.

The Internet is the Department's primary way of doing business. The subscription server e-mails are an added courtesy the Department provides. It is suggested that bidder check IDOT's website http://www.dot.il.gov/desenv/delett.html before submitting final bid information.

IDOT is not responsible for any e-mail related failures.

Addenda Questions may be directed to the Contracts Office at (217)-782-7806 or D&Econtracts@dot.il.gov

Technical Questions about downloading these files may be directed to Roseanne Nance (217)-785-5875 or nancer@dot.il.gov

WHAT MUST BE INCLUDED WHEN BIDS ARE SUBMITTED?: Bidders need not return the entire proposal when bids are submitted. That portion of the proposal that must be returned includes the following:

- 1. All documents from the Proposal Cover Sheet through the Proposal Bid Bond
- 2. Other special documentation and/or information that may be required by the contract special provisions

All proposal documents, including Proposal Guaranty Checks or Proposal Bid Bonds, should be stapled together to prevent loss when bids are processed by IDOT personnel.

ABOUT SUBMITTING BIDS: It is recommended that bidders deliver bids in person to insure they arrive at the proper location prior to the time specified for the receipt of bids. Any bid received at the place of letting after the time specified will not be accepted.

WHO SHOULD BE CALLED IF ASSISTANCE IS NEEDED?

Questions Regarding	Call
Prequalification and/or Authorization to Bid	217/782-3413
Preparation and submittal of bids	217/782-7806
Mailing of plans and proposals	217/782-7806
Electronic plans and proposals	217/785-5875

ADDENDUMS TO THE PROPOSAL FORMS

Planholders should verify that they have received and incorporated the revisions prior to submitting their bid. Failure by the bidder to include an addendum could result in a bid being rejected as irregular.

137

KETOKIN WITH DID	
Proposal Submitted By	
Name	
Address	
City	

Letting June 11, 2004

NOTICE TO PROSPECTIVE BIDDERS

This proposal can be used for bidding purposes by only those companies that request and receive written AUTHORIZATION TO BID from IDOT's Central Bureau of Construction. (SEE INSTRUCTIONS ON THE INSIDE OF COVER)

Notice To Bidders, Specifications, Proposal, Contract and Contract Bond



Springfield, Illinois 62764

Contract No. 62350
COOK County
Section 2001-167R
Project NHI-805(59)162
Route FAI 80
District 1 Construction Funds

PLEASE MARK THE APPROPRIATE BOX BELOW:
☐ A <u>Bid</u> <u>Bond</u> is included.
☐ A <u>Cashier's Check</u> or a <u>Certified Check</u> is included

Prepared by

,

F

Checked by

(Printed by authority of the State of Illinois)

INSTRUCTIONS

ABOUT IDOT PROPOSALS: All proposals issued by IDOT are potential bidding proposals. Each proposal contains all Certifications and Affidavits, a Proposal Signature Sheet and a Proposal Bid Bond required for Prime Contractors to submit a bid after written **Authorization to Bid** has been issued by IDOT's Central Bureau of Construction.

HOW MANY PROPOSALS SHOULD PROSPECTIVE BIDDERS REQUEST?: Prospective bidders should, prior to submitting their initial request for plans and proposals, determine their needs and request the total number of plans and proposals needed for each item requested. There will be a nonrefundable charge of \$15 for each set of plans and specifications issued.

WHO CAN BID?: Bids will be accepted from only those companies that request and receive written **Authorization to Bid** from IDOT's Central Bureau of Construction. To request authorization, a potential bidder <u>must complete and submit Part B of the Request for Proposal Forms and Plans & Request for Authorization to Bid form (BDE 124) and submit an original Affidavit of Availability (BC 57).</u>

WHAT CONSTITUTES WRITTEN AUTHORIZATION TO BID?: When a prospective prime bidder submits a "Request for Proposal Forms and Plans" he/she must indicate at that time which items are being requested For Bidding purposes. Only those items requested For Bidding will be analyzed. After the request has been analyzed, the bidder will be issued a Proposal Denial and/or Authorization Form, approved by the Central Bureau of Construction, that indicates which items have been approved For Bidding. If Authorization to Bid cannot be approved, the Proposal Denial and/or Authorization Form will indicate the reason for denial. If a contractor has requested to bid but has not received a Proposal Denial and/or Authorization Form, they should contact the Central Bureau of Construction in advance of the letting date.

WHAT MUST BE INCLUDED WHEN BIDS ARE SUBMITTED?: Bidders need not return the entire proposal when bids are submitted. That portion of the proposal that must be returned includes the following:

- 1. All documents from the Proposal Cover Sheet through the Proposal Bid Bond
- 2. Other special documentation and/or information that may be required by the contract special provisions

All proposal documents, including Proposal Guaranty Checks or Proposal Bid Bonds, should be stapled together to prevent loss when bids are processed by IDOT personnel.

ABOUT SUBMITTING BIDS: It is recommended that bidders deliver bids in person to insure they arrive at the proper location prior to the time specified for the receipt of bids. Any bid received at the place of letting after the time specified will not be accepted.

Call

WHO SHOULD BE CALLED IF ASSISTANCE IS NEEDED?

Questions Regarding

Questions regarding	Guii
Pregualification and/or Authorization to Bid	217/782-3413
Preparation and submittal of bids	217/782-7806
Mailing of plans and proposals	217/782-7806



PROPOSAL

TO THE DEPARTMENT OF TRANSPORTATION

1.	Proposal of

for the improvement identified and advertised for bids in the Invitation for Bids as:

Contract No. 62350 COOK County Section 2001-167R Project NHI-805(59)162 Route FAI 80 District 1 Construction Funds

- 3.95 miles of reconstruction of Bernice Avenue and 175th Street, along with milling and bituminous concrete surface on 175th Street, construction of retaining walls along FAI Route 80/94/U.S. Route 6 storm sewer work and landscaping all for future improvements of FAI Route 80/94/U.S. Route 6 from Illinois Route 83 to Wentworth Avenue in Lansing.
- 2. The undersigned bidder will furnish all labor, material and equipment to complete the above described project in a good and workmanlike manner as provided in the contract documents provided by the Department of Transportation. This proposal will become part of the contract and the terms and conditions contained in the contract documents shall govern performance and payments.

- 3. ASSURANCE OF EXAMINATION AND INSPECTION/WAIVER. The undersigned further declares that he/she has carefully examined the proposal, plans, specifications, form of contract and contract bond, and special provisions, and that he/she has inspected in detail the site of the proposed work, and that he/she has familiarized themselves with all of the local conditions affecting the contract and the detailed requirements of construction, and understands that in making this proposal he/she waives all right to plead any misunderstanding regarding the same.
- 4. **EXECUTION OF CONTRACT AND CONTRACT BOND.** The undersigned further agrees to execute a contract for this work and present the same to the department within fifteen (15) days after the contract has been mailed to him/her. The undersigned further agrees that he/she and his/her surety will execute and present within fifteen (15) days after the contract has been mailed to him/her contract bond satisfactory to and in the form prescribed by the Department of Transportation, in the penal sum of the full amount of the contract, guaranteeing the faithful performance of the work in accordance with the terms of the contract.
- 5. **PROPOSAL GUARANTY.** Accompanying this proposal is either a bid bond on the department form, executed by a corporate surety company satisfactory to the department, or a proposal guaranty check consisting of a bank cashier's check or a properly certified check for not less than 5 per cent of the amount bid or for the amount specified in the following schedule:

	Amount (of Bid	Proposal <u>Guaranty</u>	<u>A</u>	mount c	of Bid	Proposal <u>Guaranty</u>
Up to		\$5,000	\$150	\$2.000.000	to	\$3,000,000	\$100,000
\$5.000	to	\$10.000	•	\$3,000,000	to	\$5,000,000	
\$10,000	to	\$50,000		\$5,000,000	to	\$7,500,000	. ,
\$50,000	to	\$100,000	\$3,000	\$7,500,000	to	\$10,000,000	\$400,000
\$100,000	to	\$150,000	\$5,000	\$10,000,000	to	\$15,000,000	\$500,000
\$150,000	to	\$250,000	\$7,500	\$15,000,000	to	\$20,000,000	\$600,000
\$250,000	to	\$500,000	\$12,500	\$20,000,000	to	\$25,000,000	\$700,000
\$500,000	to	\$1,000,000	\$25,000	\$25,000,000	to	\$30,000,000	\$800,000
\$1,000,000	to	\$1,500,000	\$50,000	\$30,000,000	to	\$35,000,000	\$900,000
\$1,500,000	to	\$2,000,000	\$75,000	over		\$35,000,000	\$1,000,000

Bank cashier's checks or properly certified checks accompanying proposals shall be made payable to the Treasurer, State of Illinois, when the state is awarding authority; the county treasurer, when a county is the awarding authority; or the city, village, or town treasurer, when a city, village, or town is the awarding authority.

If a combination bid is submitted, the proposal guaranties which accompany the individual proposals making up the combination will be considered as also covering the combination bid.

The amount of the proposal guaranty check is	\$(). If this proposal is accepted
and the undersigned shall fail to execute a contract bond as required herein, i	it is hereby agreed that the amount of the	proposal guaranty shall become
the property of the State of Illinois, and shall be considered as payment of dar	mages due to delay and other causes suffe	ered by the State because of the
failure to execute said contract and contract bond; otherwise, the bid bond s	hall become void or the proposal guaranty	check shall be returned to the
undersianed.		

un	dersigned.				
	Attach Cashier's Check or Certified Check Here				
of t	In the event that one proposal guaranty check is intended to cover two or more proposals, the amount must be equal to the sum of the proposal guaranties which would be required for each individual proposal. If the guaranty check is placed in another proposal, state below where it may be found.				
Th	ne proposal guaranty check will be found in the proposal for:				
	Section No				
	County				

Mark the proposal cover sheet as to the type of proposal guaranty submitted.

BD 354 (Rev. 11/2001)

6. **COMBINATION BIDS.** The undersigned further agrees that if awarded the contract for the sections contained in the following combination, he/she will perform the work in accordance with the requirements of each individual proposal comprising the combination bid specified in the schedule below, and that the combination bid shall be prorated against each section in proportion to the bid submitted for the same. If an error is found to exist in the gross sum bid for one or more of the individual sections included in a combination, the combination bid shall be corrected as provided in the specifications.

When a combination bid is submitted, the schedule below must be completed in each proposal comprising the combination.

If alternate bids are submitted for one or more of the sections comprising the combination, a combination bid must be submitted for each alternate.

Schedule of Combination Bids

Combination		Combinatio	Combination Bid			
No. Sections Included in Combination		Dollars	Cents			

- 7. SCHEDULE OF PRICES. The undersigned bidder submits herewith, in accordance with the rules and instructions, a schedule of prices for the items of work for which bids are sought. The unit prices bid are in U.S. dollars and cents, and all extensions and summations have been made. The bidder understands that the quantities appearing in the bid schedule are approximate and are provided for the purpose of obtaining a gross sum for the comparison of bids. If there is an error in the extension of the unit prices, the unit prices shall govern. Payment to the contractor awarded the contract will be made only for actual quantities of work performed and accepted or materials furnished according to the contract. The scheduled quantities of work to be done and materials to be furnished may be increased, decreased or omitted as provided elsewhere in the contract.
- 8. **CERTIFICATE OF AUTHORITY.** The undersigned bidder, if a business organized under the laws of another State, assures the Department that it will furnish a copy of its certificate of authority to do business in the State of Illinois with the return of the executed contract and bond. Failure to furnish the certificate within the time provided for execution of an awarded contract may be cause for cancellation of the award and forfeiture of the proposal guaranty to the State.

State Job # - C-91-511-01 PPS NBR - 1-73514-1400

County Name - COOK- -

Code - 31 - - District - 1 - -

Project Number	Route
NHI-0805/059/162	FAI 80

ltem Number	Pay Item Description	Unit of Measure	Quantity	х	Unit Price	=	Total Price
MX030063	STORM SEW WM REQ 300	METER	771.000				
MX030066	STORM SEW WM REQ 750	METER	23.000				
MX030067	STORM SEW WM REQ 900	METER	83.500				
MX030068	STORM SEW WM REQ 1200	METER	8.000				
MX030102	STORM SEW WM REQ 375	METER	108.000				
MX030103	STORM SEW WM REQ 525	METER	40.000				
MX030104	STORM SEW WM REQ 600	METER	16.000				
MX030151	SS D T1 200	METER	91.500				
MX030193	STORM SEW WM REQ 200	METER	13.000				
MX030199	TEMP PAVEMENT	SQ M	4,886.000				
MX030353	SS D I T1 300	METER	22.500				
MX032357	WATER MAIN REMOVAL	METER	271.000				
MX032639	WEED CONTROL TEASEL	LITER	95.000				
MX032868	DUCTILE IRON FITTINGS	KG	4,250.000				
MX033276	TEMP SOIL RETEN SYSTM	SQ M	3,540.000				

State Job # - C-91-511-01 PPS NBR - 1-73514-1400

County Name - COOK- -

Code - 31 - - District - 1 - -

Project Number	Route
NHI-0805/059/162	FAI 80

Item Number	Pay Item Description	Unit of Measure	Quantity	x	Unit Price	=	Total Price
MX033290	SED CONT SILT FENCE	METER	2,294.000				
MX033291	SED CON SILT FEN MAIN	METER	2,294.000				
MX033292	SED CON STAB CONST EN	SQ M	496.000				
MX033303	SED CON STAB CON EN M	SQ M	496.000				
MX033407	CON EMB STR 50 CNC	METER	7,104.500				
MX033471	PS CONC LC WM 915	METER	1,452.000				
MX033472	TEMP PLUG I&R 915	EACH	6.000				
MX033473	CMB AIR/VAC REL 1.8MV	EACH	5.000				
MX033474	STL SLV 1400D OPN-CUT	EACH	88.000				
MX033475	STL SLV 1400D AUGURED	EACH	32.000				
MX033476	SS WAT MAIN REQ 275MM	METER	8.000				
MX033477	CUT/PLUG INSTALL 915	EACH	6.000				
MX033478	P TEST/DISINF 915 WM	L SUM	1.000				
MX033479	WATER MN REMOVAL 915	METER	1,450.000				
MX033480	DIWM CL52 POLY EN 150	METER	18.000			<u> </u>	

State Job # - C-91-511-01 PPS NBR - 1-73514-1400

County Name - COOK- -

Code - 31 - - District - 1 - -

Project Number	Route
NHI-0805/059/162	FAI 80

ltem Number	Pay Item Description	Unit of Measure	Quantity	X	Unit Price	=	Total Price
MX033481	DIWM CL52 POLY EN 400	METER	212.000				
MX033482	STL SLV 750D OPN-CUT	EACH	85.000				
MX033483	TS/VL400X400/1.5T1FCL	EACH	4.000				
MX033484	TS/VL250X250/1.5T1FCL	EACH	1.000				
MX033485	TS/VL150X150/1.5T1FCL	EACH	2.000				
MX033486	BLIND FLANGE CAP 400	EACH	7.000				
MX033487	BLIND FLANGE CAP 150	EACH	8.000				
MX033488	ABAN WM IN PLACE 400	L SUM	1.000				
MX033489	ABAN WM IN PLACE 150	L SUM	2.000				
MX033490	ABAN VALV ON 150 W MN	EACH	1.000				
MX033491	P TEST/DISINF 400 WM	L SUN	1.000				
MX033492	P TEST/DISINF 150 WM	L SUN	1.000				
MX033493	TEMP SOIL RET SYS RIP	SQ M	55.000				
MX355150		SQ M	2,614.100				
	BC SC SUPER "C" N50	M TON	262.400				

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County Name - COOK- -

Code - 31 - - District - 1 - -

Project Number	Route
NHI-0805/059/162	FAI 80

Item Number	Pay Item Description	Unit of Measure	Quantity	X	Unit Price	=	Total Price
MX406022	BC SC SUPER "D" N50	M TON	543.300				
MX406214	BCBC SUP IL-19.0 N50	M TON	1,301.900				
MX407380	BIT C PVT FD SUP 230	SQ M	31,926.000				
MX561105	BFLY VLVE 915/2.1 VLT	EACH	1.000				
MX602100	MAN A 2.1D T8G	EACH	1.000				
MX602265	MS 1.5D 1.8-2.4BDWTFC	EACH	8.000				
MX602400	MAN A 1.8D T1F CL R-P	EACH	1.000				
MZ001050	AGG SUBGRADE 300	SQ M	36,079.000				
MZ022800	FENCE REMOVAL	METER	4,661.000				
M2010110	TREE REMOV 6-15	UNIT	342.000				
M2010210	TREE REMOV OVER 15	UNIT	316.000				
M2010500	TREE REMOV HECTARES	НА	9.000				
M2011000	TEMPORARY FENCE	METER	109.000				
M2020010	EARTH EXCAVATION	си м	20,115.000				
M2021200	REM & DISP UNS MATL	CU M	36,125.000				

State Job # - C-91-511-01 PPS NBR - 1-73514-1400

County Name - COOK- -

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Project Number	Route
NHI-0805/059/162	FAI 80

Item Number	Pay Item Description	Unit of Measure	Quantity	x	Unit Price	=	Total Price
M2040800	FURNISHED EXCAV	CU M	3,049.000				
M2070420	POROUS GRAN EMB SUBGR	CU M	605.400				
M2080150	TRENCH BACKFILL	си м	13,916.000				
M2113150	TOPSOIL F & P 150	SQ M	37,040.000				
M2113300	TOPSOIL F & P 300	SQ M	5,241.000				
M2114100	COMPOST F & P 100	SQ M	12,048.000				
M2130201	EXPLOR TRENCH 2.1	METER	148.000				
M2500210	SEEDING CL 2A	НА	3.300				
M2500400	NITROGEN FERT NUTR	KG	661.000				
M2500500	PHOSPHORUS FERT NUTR	KG	661.000				
M2500600	POTASSIUM FERT NUTR	KG	661.000				
M2502024	SEEDING CL 4B MOD	НА	0.700				
M2510115	MULCH METHOD 2	НА	3.200				
M2510630	EROSION CONTR BLANKET	SQ M	64,034.000				
M2520110	SODDING SALT TOLERANT	SQ M	10,148.000				

State Job # - C-91-511-01 PPS NBR - 1-73514-1400

County Name - COOK- -

Code - 31 - - District - 1 - -

Project Number	Route
NHI-0805/059/162	FAI 80

Item Number	Pay Item Description	Unit of Measure	Quantity	X	Unit Price	=	Total Price
M2520200	SUPPLE WATERING	UNIT	327.000				
M2800200	EARTH EX - EROS CONT	си м	1,402.000				
M2800250	TEMP EROS CONTR SEED	KG	842.000				
M2810107	STONE RIPRAP CL A4	SQ M	176.000				
M2810207	STONE RIPRAP CL A4	M TON	36.300				
M2820100	FILTER FAB FOR RIPRAP	SQ M	259.000				
M4060200	BIT MATLS PR CT	M TON	34.500				
M4060300	AGG PR CT	M TON	156.200				
M4060895	CONSTRUC TEST STRIP	EACH	7.000				
M4060980	BIT SURF REM BUTT JT	SQ M	290.000				
M4205200	PROTECTIVE COAT	SQ M	2,166.000				
M4230150	PCC DRIVEWAY PAVT 150	SQ M	271.000				
M4240125	PC CONC SIDEWALK 125	SQ M	1,489.000				
M4400045	BIT SURF REM 45	SQ M	4,723.000				
M4402000	PAVEMENT REM	SQ M	34,694.000				

State Job # - C-91-511-01 PPS NBR - 1-73514-1400

County Name - COOK- -

Code - 31 - - District - 1 - -

Project Number	Route
NHI-0805/059/162	FAI 80

Item Number	Pay Item Description	Unit of Measure	Quantity	х	Unit Price	=	Total Price
M4402010	DRIVE PAVEMENT REM	SQ M	3,483.000				
M4402040	COMB CURB GUTTER REM	METER	260.000				
M4402050	SIDEWALK REM	SQ M	987.000				
M4428015	CL D PATCH T1 175	SQ M	5.000				
M4428215	CL D PATCH T2 175	SQ M	109.000				
M4428315	CL D PATCH T3 175	SQ M	55.000				
M4428415	CL D PATCH T4 175	SQ M	194.000				
M4430020	STRIP REF CR CON TR	METER	3,679.000				
M4812000	AGGREGATE SHLDS B	M TON	2.300				
M5010240	CONC REM	си м	19.800				
M5010522	PIPE CULVERT REMOV	METER	214.500				
M5020100	STRUCTURE EXCAVATION	си м	37,435.000				
M5030350	CONC STRUCT	си м	23,880.400				
M5030380	RUSTICATION FINISH	SQ M	15,115.000				
M5030450	PROTECTIVE COAT	SQ M	25,867.000				

State Job # - C-91-511-01 PPS NBR - 1-73514-1400

County Name - COOK- -

Code - 31 - - District - 1 - -

Project Number	Route
NHI-0805/059/162	FAI 80

Item Number	Pay Item Description	Unit of Measure	Quantity	X	Unit Price	=	Total Price
M5080105	REINFORCEMENT BARS	KG	20,880.000				
M5080205	REINF BARS, EPOXY CTD	KG	1,684,300.000				
M5120115	F MET PILE SHELL 356	METER	86,738.000				
M5120340	DRIV & FILLING SHELLS	METER	86,738.000				
M5120900	TEMP SHT PILING	SQ M	2,037.000				
M5403000	CONC BOX CUL	си м	147.200				
M542B112	R C PIPE ELBOW 300	EACH	6.000				
M542E112	PRC FL-END SEC 300	EACH	26.000				
M542E136	PRC FL-END SEC 750	EACH	3.000				
M542E644	PRCF ES EL EQRS 900	EACH	1.000				
M542E648	PRCF ES EL EQRS 1050	EACH	2.000				
M542G045	GRAT-C FL END S 750	EACH	3.000				
M542G250	GRT-C FL ES EQV 900	EACH	1.000				
M542G255	GRT-C FL ES EQV 1050	EACH	2.000				
M542H050	PCULCLA1 750	METER	13.500				

State Job # - C-91-511-01 PPS NBR - 1-73514-1400

County Name - COOK- -

Code - 31 - - District - 1 - -

Project Number	Route
NHI-0805/059/162	FAI 80

Item Number	Pay Item Description	Unit of Measure	Quantity	X	Unit Price	=	Total Price
M542U215	P CUL CL C 2 300 TEM	METER	46.000				
M5421840	P CUL 1 RC E-R-S 1050	METER	8.500				
M5421925	P CUL 1 RC-E ERS 675	METER	45.000				
M5421930	P CUL 1 RC-E ERS 750	METER	86.500				
M5421935	P CUL 1 RC-E ERS 900	METER	15.000				
M5424220	P CUL 2 RCE EQRS 600	METER	74.000				
M5424225	P CUL 2 RCE EQRS 675	METER	218.500				
M5424230	P CUL 2 RCE EQRS 750	METER	94.000				
M5424235	P CUL 2 RCE EQRS 900	METER	36.500				
M5502840	SS 1 RCP CL 4 300	METER	120.000				
M5503050	SS 2 RCP CL 3 300	METER	173.000				
M5503070	SS 2 RCP CL 3 450	METER	64.200				
M5503111	SS 2 RCP CL 3 750	METER	9.000				
M5503530	SS 4 RCP CL 5 750	METER	2.000				
M5503550	SS 4 RCP CL 4 900	METER	2.500				

State Job # - C-91-511-01 PPS NBR - 1-73514-1400

County Name - COOK- -

Code - 31 - - District - 1 - -

Project Number	Route
NHI-0805/059/162	FAI 80

Item Number	Pay Item Description	Unit of Measure	Quantity	X	Unit Price	=	Total Price
M5504435	SS 1 RCEP S1050 R675	METER	793.000				
M5504800	SS CLEANED	METER	42.000				
M5505530	SS RG CL A 1 300	METER	639.900				
M5505540	SS RG CL A 1 375	METER	18.500				
M5505560	SS RG CL A 1 525	METER	61.500				
M5505570	SS RG CL A 1 600	METER	53.500				
M5505930	SS RG CL A 2 300	METER	631.800				
M5505940	SS RG CL A 2 375	METER	116.500				
M5505970	SS RG CL A 2 600	METER	101.000				
M5505990	SS RG CL A 2 750	METER	40.500				
M5510025	STORM SEWER REM 300	METER	278.500				
M5510035	STORM SEWER REM 375	METER	196.000				
M5510060	STORM SEWER REM 600	METER	50.000				
M5510095	STORM SEWER REM 1200	METER	82.000				
M5610930	ADJ WATER MAIN 150	METER	18.000				

State Job # - C-91-511-01 PPS NBR - 1-73514-1400

COOK--

Code - 31 - - District - 1 - -

County Name -

Project Number	Route
NHI-0805/059/162	FAI 80

Item Number	Pay Item Description	Unit of Measure	Quantity	X	Unit Price	=	Total Price
M5610935	ADJ WATER MAIN 200	METER	31.000				
M5610955	ADJ WATER MAIN 400	METER	121.800				
M5630500	ADJ SAN SEW OVER 200	METER	11.000				
M5630600	ADJ WATER SERV LINES	METER	26.000				
M5910100	GEOCOMPOSITE WALL DR	SQ M	13,245.000				
M6010605	PIPE UNDERDRAINS 100	METER	65.500				
M6010705	PIPE UNDERDRN 100 SP	METER	19.500				
M6011105	P UNDR - STRUCT 150	METER	3,576.000				
M6020105	CB A 1.2M D T1F OL	EACH	42.000				
M6020140	CB A 1.2M D T8G	EACH	37.000				
M6021405	MAN A 1.2D T1F OL	EACH	15.000				
M6021410	MAN A 1.2D T1F CL	EACH	22.000				
M6021610	MAN A 1.5D T1F CL	EACH	3.000				
M6021810	MAN A 1.8D T1F CL	EACH	20.000				
M6022010	MAN A 2.1D T1F CL	EACH	8.000				

State Job # - C-91-511-01 PPS NBR - 1-73514-1400

County Name - COOK- -

Code - 31 - - District - 1 - -

Project Number	Route
NHI-0805/059/162	FAI 80

Item Number	Pay Item Description	Unit of Measure	Quantity	X	Unit Price	=	Total Price
M6022820	MAN SAN 1.5D T1F CL	EACH	12.000				
M6060070	CONC CURB TB	METER	43.500				
M6060500	COMB CC&G TB15.30	METER	7,146.200				
M6060520	COMB CC&G TB15.30 SPL	METER	194.000				
M6080140	FLAP GATE 300	EACH	2.000				
M6080180	FLAP GATE 600	EACH	1.000				
M6320030	GUARDRAIL REMOV	METER	996.000				
M6641620	CH LK GATE 1.8X3.7 DB	EACH	2.000				
M6643405	TEMP FENCE SPL	METER	1,471.000				
M6690100	BACKFILL PLUGS	си м	53.000				
M6690200	NON SPL WASTE DISPOSL	CU M	225.000				
M6690400	SPL WAST GRD WAT DISP	LITER	214,700.000				
M7030220	TEMP PVT MK LINE 100	METER	13,877.000				
M7030280	TEMP PVT MK LINE 600	METER	10.000				
M7030520	PAVT MARK TAPE T3 100	METER	305.000				

State Job # - C-91-511-01 PPS NBR - 1-73514-1400

County Name - COOK- -

Code - 31 - - District - 1 - -

Project Number	Route
NHI-0805/059/162	FAI 80

Item Number	Pay Item Description	Unit of Measure	Quantity	X	Unit Price	=	Total Price
M7040100	TEMP CONC BARRIER	METER	777.500				
M7240330	REMOV SIGN PANEL T3	SQ M	60.000				
M8120230	CON EMB STR 50 PVC	METER	94.000				
M8120250	CON EMB STR 75 PVC	METER	38.000				
M8131400	JBX NM ES 525X275X200	EACH	7.000				
XX000679	CUT & CAP EX WATER M	EACH	7.000				
XX004760	FIRE HYD W/A V VB & T	EACH	8.000				
X0322208	TEMP STORM SEWER PLUG	EACH	8.000				
X0322917	PRO SS CONN TO EX MAN	EACH	9.000				
X0323326	CORE & BOOT EX MN H	EACH	4.000				
X0323426	SED CONT DR ST INL CL	EACH	452.000				
X0324045	SED CON STAB CON EN R	EACH	2.000				
X0324583	FLUSHING STATION	EACH	1.000				
X0324584	AUGUR PIT	EACH	2.000				
X0324585	SAN SEW SERV REM/REPL	EACH	26.000				

State Job # - C-91-511-01 PPS NBR - 1-73514-1400

County Name - COOK- -

Code - 31 - - District - 1 - -

Project Number	Route
NHI-0805/059/162	FAI 80

Item Number	Pay Item Description	Unit of Measure	Quantity	X	Unit Price	=	Total Price
X0324586	REM/SALV BUTTERFLY VL	EACH	1.000				
X0324587	NOIS AB WAL A-ROD ASY	EACH	750.000				
X0469600	CONN TO EX WATER MAIN	EACH	6.000				
X0520115	SS JUNCTION BOX TY J	EACH	36.000				
X4021000	TEMP ACCESS- PRIV ENT	EACH	24.000				
X4022000	TEMP ACCESS- COM ENT	EACH	22.000				
X4023000	TEMP ACCESS- ROAD	EACH	27.000				
X6020167	DR STR T2 SP 2T22F&G	EACH	2.000				
X6700410	ENGR FLD OFF A SPL	CAL MO	18.000				
X7011015	TR C-PROT EXPRESSWAYS	L SUM	1.000				
X7015000	CHANGEABLE MESSAGE SN	CAL MO	32.000				
X7330360	OVHD SIN STR-SPAN ARA	EACH	8.000				
Z0002600	BAR SPLICERS	EACH	222.000				
Z0007601	BLDG REMOV NO 1	L SUM	1.000				
Z0007602	BLDG REMOV NO 2	L SUM	1.000				

State Job # - C-91-511-01 PPS NBR - 1-73514-1400

County Name - COOK- -

Code - 31 - - District - 1 - -

Project Number	Route
NHI-0805/059/162	FAI 80

ltem Number	Pay Item Description	Unit of Measure	Quantity	х	Unit Price	=	Total Price
Z0013798	CONSTRUCTION LAYOUT	L SUM	1.000				
Z0014700	CULVERT TO BE CLEANED	EACH	1.000				
Z0018500	DRAINAGE STR CLEANED	EACH	2.000				
Z0030250	IMP ATTN TEMP NRD TL3	EACH	1.000				
Z0049901	R&D NON-FR ASB BLD 1	L SUM	1.000				
Z0049902	R&D NON-FR ASB BLD 2	L SUM	1.000				
Z0076600	TRAINEES	HOUR	6,500.000		0.800		5,200.000
20101100	TREE TRUNK PROTECTION	EACH	31.000				
28000300	TEMP DITCH CHECKS	EACH	41.000				
28000510	INLET FILTERS	EACH	272.000				
51203200	TEST PILE MET SHELLS	EACH	52.000				
54248515	CONCRETE COLLAR	EACH	6.000				
56400300	FIRE HYDNTS TO BE ADJ	EACH	3.000				
56400500	FIRE HYDNTS TO BE REM	EACH	6.000				
60100060	CONC HDWL FOR P DRAIN	EACH	5.000				

State Job # - C-91-511-01 PPS NBR - 1-73514-1400

County Name - COOK- -

Code - 31 - - District - 1 - -

Project Number	Route
NHI-0805/059/162	FAI 80

ltem Number	Pay Item Description	Unit of Measure	Quantity	X	Unit Price	=	Total Price
60206705	CATCH BASINS TB	EACH	5.000				
60206905	CB TC T1F OL	EACH	18.000				
60207605	CB TC T8G	EACH	58.000				
60234200	INLETS TA T1F OL	EACH	39.000				
60240210	INLETS TB T1F OL	EACH	40.000				
60249130	VV RELOCATED	EACH	2.000				
60255500	MAN ADJUST	EACH	1.000				
60260100	INLETS ADJUST	EACH	1.000				
60265700	VV ADJUST	EACH	5.000				
60266500	VV REMOVED	EACH	1.000				
60300105	FR & GRATES ADJUST	EACH	2.000				
60300305	FR & LIDS ADJUST	EACH	1.000				
60300310	FR & LIDS ADJUST SPL	EACH	13.000				
60500040		EACH	14.000				
60500050		EACH	9.000				

State Job # - C-91-511-01 PPS NBR - 1-73514-1400

County Name - COOK- -

Code - 31 - - District - 1 - -

Project Number	Route
NHI-0805/059/162	FAI 80

ltem Number	Pay Item Description	Unit of Measure	Quantity	X	Unit Price	=	Total Price
60500060	REMOV INLETS	EACH	17.000				
66900450	SPL WASTE PLNS/REPORT	L SUM	1.000				
66900510	BETX-PNAS SOIL ANALY	EACH	16.000				
66900530	SOIL DISPOSAL ANALY	EACH	12.000				
66900535	PRI POLL GRNDWAT ANAL	EACH	6.000				
66900540	VOCS SOIL ANALYSIS	EACH	5.000				
66900610	ARSENIC/PH SOIL ANALY	EACH	15.000				
66900620	RCRA MET/PH SOIL ANAL	EACH	6.000				
66900635	LEAD TCLP SOIL ANAL	EACH	6.000				
66900640	VOCS/SVOCS SOIL ANLYS	EACH	9.000				
67000600	ENGR FIELD LAB	CAL MO	18.000				
67100100	MOBILIZATION	L SUM	1.000				
70101800	TRAF CONT & PROT SPL	L SUM	1.000				
73700100	REM GR-MT SIN SUPPORT	EACH	8.000				
73700200	REM CONC FDN-GR MT	EACH	8.000				

State Job # - C-91-511-01

PPS NBR - 1-73514-1400

County Name - COOK- -

Code - 31 - - District - 1 - -

Project Number	Route
NHI-0805/059/162	FAI 80

ltem Number	Pay Item Description	Unit of Measure	Quantity	x	Unit Price	=	Total Price
89502400	REM EX FB INSTAL COMP	EACH	1.000				

CONTRACT NUMBER

62350

THIS IS THE TOTAL BID \$

NOTES:

- 1. Each PAY ITEM should have a UNIT PRICE and a TOTAL PRICE.
- 2. The UNIT PRICE shall govern if no TOTAL PRICE is shown or if there is a discrepancy between the product of the UNIT PRICE multiplied by the QUANTITY.
- 3. If a UNIT PRICE is omitted, the TOTAL PRICE will be divided by the QUANTITY in order to establish a UNIT PRICE.
- 4. A bid may be declared UNACCEPTABLE if neither a unit price nor a total price is shown.

STATE REQUIRED ETHICAL STANDARDS GOVERNING CONTRACT PROCUREMENT: ASSURANCES, CERTIFICATIONS AND DISCLOSURES

I. GENERAL

- **A.** Article 50 of the Illinois Procurement Code establishes the duty of all State chief procurement officers, State purchasing officers, and their designees to maximize the value of the expenditure of public moneys in procuring goods, services, and contracts for the State of Illinois and to act in a manner that maintains the integrity and public trust of State government. In discharging this duty, they are charged by law to use all available information, reasonable efforts, and reasonable actions to protect, safeguard, and maintain the procurement process of the State of Illinois.
- **B.** In order to comply with the provisions of Article 50 and to carry out the duty established therein, all bidders are to adhere to ethical standards established for the procurement process, and to make such assurances, disclosures and certifications required by law. By execution of the Proposal Signature Sheet, the bidder indicates that each of the mandated assurances has been read and understood, that each certification is made and understood, and that each disclosure requirement has been understood and completed.
- **C.** In addition to all other remedies provided by law, failure to comply with any assurance, failure to make any disclosure or the making of a false certification shall be grounds for termination of the contract and the suspension or debarment of the bidder.

II. ASSURANCES

A. The assurances hereinafter made by the bidder are each a material representation of fact upon which reliance is placed should the Department enter into the contract with the bidder. The Department may terminate the contract if it is later determined that the bidder rendered a false or erroneous assurance, and the surety providing the performance bond shall be responsible for the completion of the contract.

B. Felons

1. The Illinois Procurement Code provides:

Section 50-10. Felons. Unless otherwise provided, no person or business convicted of a felony shall do business with the State of Illinois or any state agency from the date of conviction until 5 years after the date of completion of the sentence for that felony, unless no person held responsible by a prosecutorial office for the facts upon which the conviction was based continues to have any involvement with the business.

2. The bidder assures the Department that the award and execution of the contract would not cause a violation of Section 50-10.

C. Conflicts of Interest

1. The Illinois Procurement Code provides in pertinent part:

Section 50-13. Conflicts of Interest.

- (a) Prohibition. It is unlawful for any person holding an elective office in this State, holding a seat in the General Assembly, or appointed to or employed in any of the offices or agencies of state government and who receives compensation for such employment in excess of 60% of the salary of the Governor of the State of Illinois, or who is an officer or employee of the Capital Development Board or the Illinois Toll Highway Authority, or who is the spouse or minor child of any such person to have or acquire any contract, or any direct pecuniary interest in any contract therein, whether for stationery, printing, paper, or any services, materials, or supplies, that will be wholly or partially satisfied by the payment of funds appropriated by the General Assembly of the State of Illinois or in any contract of the Capital Development Board or the Illinois Toll Highway authority.
- (b) Interests. It is unlawful for any firm, partnership, association or corporation, in which any person listed in subsection (a) is entitled to receive (i) more than 7 1/2% of the total distributable income or (ii) an amount in excess of the salary of the Governor, to have or acquire any such contract or direct pecuniary interest therein.
- (c) Combined interests. It is unlawful for any firm, partnership, association, or corporation, in which any person listed in subsection (a) together with his or her spouse or minor children is entitled to receive (i) more than 15%, in the aggregate, of the total distributable income or (ii) an amount in excess of 2 times the salary of the Governor, to have or acquire any such contract or direct pecuniary interest therein.
- (d) Securities. Nothing in this Section invalidates the provisions of any bond or other security previously offered or to be offered for sale or sold by or for the State of Illinois.
- (e) Prior interests. This Section does not affect the validity of any contract made between the State and an officer or employee of the State or member of the General Assembly, his or her spouse, minor child or any combination of those persons if that contract was in existence before his or her election or employment as an officer, member, or employee. The contract is voidable, however, if it cannot be completed within 365 days after the officer, member, or employee takes office or is employed.

The current salary of the Governor is \$150,700.00. Sixty percent of the salary is \$90,420.00.

2. The bidder assures the Department that the award and execution of the contract would not cause a violation of Section 50-13, or that an effective exemption has been issued by the Board of Ethics to any individual subject to the Section 50-13 prohibitions pursuant to the provisions of Section 50-20 of the Code and Executive Order Number 3 (1998). Information concerning the exemption process is available from the Department upon request.

D. Negotiations

1. The Illinois Procurement Code provides in pertinent part:

Section 50-15. Negotiations.

- (a) It is unlawful for any person employed in or on a continual contractual relationship with any of the offices or agencies of State government to participate in contract negotiations on behalf of that office or agency with any firm, partnership, association, or corporation with whom that person has a contract for future employment or is negotiating concerning possible future employment.
- 2. The bidder assures the Department that the award and execution of the contract would not cause a violation of Section 50-15, and that the bidder has no knowledge of any facts relevant to the kinds of acts prohibited therein.

E. Inducements

1. The Illinois Procurement Code provides:

Section 50-25. Inducement. Any person who offers or pays any money or other valuable thing to any person to induce him or her not to bid for a State contract or as recompense for not having bid on a State contract is guilty of a Class 4 felony. Any person who accepts any money or other valuable thing for not bidding for a State contract or who withholds a bid in consideration of the promise for the payment of money or other valuable thing is guilty of a Class 4 felony.

2. The bidder assures the Department that the award and execution of the contract would not cause a violation of Section 50-25, and that the bidder has no knowledge of any facts relevant to the kinds of acts prohibited therein.

F. Revolving Door Prohibition

1. The Illinois Procurement Code provides:

Section 50-30. Revolving door prohibition. Chief procurement officers, associate procurement officers, State purchasing officers, their designees whose principal duties are directly related to State procurement, and executive officers confirmed by the Senate are expressly prohibited for a period of 2 years after terminating an affected position from engaging in any procurement activity relating to the State agency most recently employing them in an affected position for a period of at least 6 months. The prohibition includes, but is not limited to: lobbying the procurement process; specifying; bidding; proposing bid, proposal, or contract documents; on their own behalf or on behalf of any firm, partnership, association, or corporation. This Section applies only to persons who terminate an affected position on or after January 15, 1999.

2. The bidder assures the Department that the award and execution of the contract would not cause a violation of Section 50-30, and that the bidder has no knowledge of any facts relevant to the kinds of acts prohibited therein.

G. Reporting Anticompetitive Practices

1. The Illinois Procurement Code provides:

Section 50-40. Reporting anticompetitive practices. When, for any reason, any vendor, bidder, contractor, chief procurement officer, State purchasing officer, designee, elected official, or State employee suspects collusion or other anticompetitive practice among any bidders, offerors, contractors, proposers, or employees of the State, a notice of the relevant facts shall be transmitted to the Attorney General and the chief procurement officer.

2. The bidder assures the Department that it has not failed to report any relevant facts concerning the practices addressed in Section 50-40 which may involve the contract for which the bid is submitted.

H. Confidentiality

1. The Illinois Procurement Code provides:

Section 50-45. Confidentiality. Any chief procurement officer, State purchasing officer, designee, or executive officer who willfully uses or allows the use of specifications, competitive bid documents, proprietary competitive information, proposals, contracts, or selection information to compromise the fairness or integrity of the procurement, bidding, or contract process shall be subject to immediate dismissal, regardless of the Personnel code, any contract, or any collective bargaining agreement, and may in addition be subject to criminal prosecution.

2. The bidder assures the Department that it has no knowledge of any fact relevant to the practices addressed in Section 50-45 which may involve the contract for which the bid is submitted.

I. Insider Information

1. The Illinois Procurement Act provides:

Section 50-50. Insider information. It is unlawful for any current or former elected or appointed State official or State employee to knowingly use confidential information available only by virtue of that office or employment for actual or anticipated gain for themselves or another person.

2. The bidder assures the Department that it has no knowledge of any facts relevant to the practices addressed in Section 50-50 which may involve the contract for which the bid is submitted.

III. CERTIFICATIONS

A. The certifications hereinafter made by the bidder are each a material representation of fact upon which reliance is placed should the Department enter into the contract with the bidder. The Department may terminate the contract if it is later determined that the bidder rendered a false or erroneous certification, and the surety providing the performance bond shall be responsible for completion of the contract.

B. Bribery

1. The Illinois Procurement Code provides:

Section 50-5. Bribery.

- (a) Prohibition. No person or business shall be awarded a contract or subcontract under this Code who:
 - (1) has been convicted under the laws of Illinois or any other state of bribery or attempting to bribe an officer or employee of the State of Illinois or any other state in that officer's or employee's official capacity; or
 - (2) has made an admission of guilt of that conduct that is a matter of record but has not been prosecuted for that conduct.
- (b) Businesses. No business shall be barred from contracting with any unit of State or local government as a result of a conviction under this Section of any employee or agent of the business if the employee or agent is no longer employed by the business and:
 - (1) the business has been finally adjudicated not guilty; or
 - (2) the business demonstrates to the governmental entity with which it seeks to contract, and that entity finds that the commission of the offense was not authorized, requested, commanded, or performed by a director, officer, or high managerial agent on behalf of the business as provided in paragraph (2) of subsection (a) of Section 5-4 of the Criminal Code of 1961.
- (c) Conduct on behalf of business. For purposes of this Section, when an official, agent, or employee of a business committed the bribery or attempted bribery on behalf of the business and in accordance with the direction or authorization of a responsible official of the business, the business shall be chargeable with the conduct.
- (d) Certification. Every bid submitted to and contract executed by the State shall contain a certification by the contractor that the contractor is not barred from being awarded a contract or subcontract under this Section. A contractor who makes a false statement, material to the certification, commits a Class 3 felony.
- 2. The bidder certifies that it is not barred from being awarded a contract under Section 50.5.

C. Educational Loan

- 1. Section 3 of the Educational Loan Default Act provides:
- § 3. No State agency shall contract with an individual for goods or services if that individual is in default, as defined in Section 2 of this Act, on an educational loan. Any contract used by any State agency shall include a statement certifying that the individual is not in default on an educational loan as provided in this Section.
- 2. The bidder, if an individual as opposed to a corporation, partnership or other form of business organization, certifies that the bidder is not in default on an educational loan as provided in Section 3 of the Act.

D. Bid-Rigging/Bid Rotating

- 1. Section 33E-11 of the Criminal Code of 1961 provides:
- § 33E-11. (a) Every bid submitted to and public contract executed pursuant to such bid by the State or a unit of local government shall contain a certification by the prime contractor that the prime contractor is not barred from contracting with any unit of State or local government as a result of a violation of either Section 33E-3 or 33E-4 of this Article. The State and units of local government shall provide the appropriate forms for such certification.

(b) A contractor who makes a false statement, material to the certification, commits a Class 3 felony.

A violation of Section 33E-3 would be represented by a conviction of the crime of bid-rigging which, in addition to Class 3 felony sentencing, provides that any person convicted of this offense or any similar offense of any state or the United States which contains the same elements as this offense shall be barred for 5 years from the date of conviction from contracting with any unit of State or local government. No corporation shall be barred from contracting with any unit of State or local government as a result of a conviction under this Section of any employee or agent of such corporation if the employee so convicted is no longer employed by the corporation and: (1) it has been finally adjudicated not guilty or (2) if it demonstrates to the governmental entity with which it seeks to contract and that entity finds that the commission of the offense was neither authorized, requested, commanded, nor performed by a director, officer or a high managerial agent in behalf of the corporation.

A violation of Section 33E-4 would be represented by a conviction of the crime of bid-rotating which, in addition to Class 2 felony sentencing, provides that any person convicted of this offense or any similar offense of any state or the United States which contains the same elements as this offense shall be permanently barred from contracting with any unit of State or local government. No corporation shall be barred from contracting with any unit of State or local government as a result of a conviction under this Section of any employee or agent of such corporation if the employee so convicted is no longer employed by the corporation and: (1) it has been finally adjudicated not guilty or (2) if it demonstrates to the governmental entity with which it seeks to contract and that entity finds that the commission of the offense was neither authorized, requested, commanded, nor performed by a director, officer or a high managerial agent in behalf of the corporation.

2. The bidder certifies that it is not barred from contracting with the Department by reason of a violation of either Section 33E-3 or Section 33E-4.

E. International Anti-Boycott

- 1. Section 5 of the International Anti-Boycott Certification Act provides:
- § 5. State contracts. Every contract entered into by the State of Illinois for the manufacture, furnishing, or purchasing of supplies, material, or equipment or for the furnishing of work, labor, or services, in an amount exceeding the threshold for small purchases according to the purchasing laws of this State or \$10,000.00, whichever is less, shall contain certification, as a material condition of the contract, by which the contractor agrees that neither the contractor nor any substantially-owned affiliated company is participating or shall participate in an international boycott in violation of the provisions of the U.S. Export Administration Act of 1979 or the regulations of the U.S. Department of Commerce promulgated under that Act.
- 2. The bidder makes the certification set forth in Section 5 of the Act.

F. Drug Free Workplace

- 1. The Illinois "Drug Free Workplace Act" applies to this contract and it is necessary to comply with the provisions of the "Act" if the contractor is a corporation, partnership, or other entity (including a sole proprietorship) which has 25 or more employees.
- 2. The bidder certifies that if awarded a contract in excess of \$5,000 it will provide a drug free workplace by:
- (a) Publishing a statement notifying employees that the unlawful manufacture, distribution, dispensation, possession or use of a controlled substance, including cannabis, is prohibited in the contractor's workplace; specifying the actions that will be taken against employees for violations of such prohibition; and notifying the employee that, as a condition of employment on such contract, the employee shall abide by the terms of the statement, and notify the employer of any criminal drug statute conviction for a violation occurring in the workplace no later than five (5) days after such conviction.
- (b) Establishing a drug free awareness program to inform employees about the dangers of drug abuse in the workplace; the contractor's policy of maintaining a drug free workplace; any available drug counseling, rehabilitation, and employee assistance programs; and the penalties that may be imposed upon employees for drug violations.
- (c) Providing a copy of the statement required by subparagraph (1) to each employee engaged in the performance of the contract and to post the statement in a prominent place in the workplace.
- (d) Notifying the Department within ten (10) days after receiving notice from an employee or otherwise receiving actual notice of the conviction of an employee for a violation of any criminal drug statute occurring in the workplace.
- (e) Imposing or requiring, within 30 days after receiving notice from an employee of a conviction or actual notice of such a conviction, an appropriate personnel action, up to and including termination, or the satisfactory participation in a drug abuse assistance or rehabilitation program approved by a federal, state or local health, law enforcement or other appropriate agency.
- (f) Assisting employees in selecting a course of action in the event drug counseling, treatment, and rehabilitation is required and indicating that a trained referral team is in place.
- (g) Making a good faith effort to continue to maintain a drug free workplace through implementation of the actions and efforts stated in this certification.

G. Debt Delinquency

1. The Illinois Procurement Code provides:

Section 50-11 and 50-12. Debt Delinquency.

The contractor or bidder certifies that it, or any affiliate, is not barred from being awarded a contract under 30 ILCS 500. Section 50-11 prohibits a person from entering into a contract with a State agency if it knows or should know that it, or any affiliate, is delinquent in the payment of any debt to the State as defined by the Debt Collection Board. Section 50-12 prohibits a person from entering into a contract with a State agency if it, or any affiliate, has failed to collect and remit Illinois Use Tax on all sales of tangible personal property into the State of Illinois in accordance with the provisions of the Illinois Use Tax Act. The contractor further acknowledges that the contracting State agency may declare the contract void if this certification is false or if the contractor, or any affiliate, is determined to be delinquent in the payment of any debt to the State during the term of the contract.

H. Sarbanes-Oxley Act of 2002

1. The Illinois Procurement Code provides:

Section 50-60(c).

The contractor certifies in accordance with 30 ILCS 500/50-10.5 that no officer, director, partner or other managerial agent of the contracting business has been convicted of a felony under the Sarbanes-Oxley Act of 2002 or a Class 3 or Class 2 felony under the Illinois Securities Law of 1953 for a period of five years prior to the date of the bid or contract. The contractor acknowledges that the contracting agency shall declare the contract void if this certification is false.

I. ADDENDA

The contractor or bidder certifies that all relevant addenda have been incorporated in to this contract. Failure to do so may cause the bid to be declared unacceptable.

J. Section 42 of the Environmental Protection Act

The contractor certifies in accordance with 30 ILCS 500/50-12 that the bidder or contractor is not barred from being awarded a contract under this Section which prohibits the bidding on or entering into contracts with the State of Illinois or a State agency by a person or business found by a court or the Pollution Control Board to have committed a willful or knowing violation of Section 42 of the Environmental Protection Act for a period of five years from the date of the order. The contractor acknowledges that the contracting agency may declare the contract void if this certification is false.

K. Apprenticeship and Training Certification (Does not apply to federal aid projects)

As a material part of its bid submission for purposes of determining responsibility for award of this contract, the bidder hereby certifies that it is a participant in an approved, applicable apprenticeship and training program either as an individual or as part of a group program. The bidder further certifies that each of its subcontractors submitted for approval either (a) is, at the time of such bid, participating in an approved, applicable apprenticeship and training program; or (b) will, prior to commencement of performance of work pursuant to this contract, begin participation in an approved, applicable apprenticeship and training program. The Department may require the contractor to provide a copy of the applicable Certificate of Registration evidencing such participation by the contractor and each of its subcontractors at any time. Unless otherwise directed in writing by the Department, applicable apprenticeship and training programs are those that have been approved and registered with the United States Department of Labor and that cover one or more of the following crafts: Carpenters, Cement Masons, Electricians, Iron Workers, Laborers, Operating Engineers, Painters, Teamsters or Plumbers and Pipe fitters. The bidder shall list in the space below, the official name of the program sponsor holding the Certificate of Registration for all of the crafts in which the bidder is a participant.

The requirements of this certification and disclosure are a material part of the contract, and the contractor shall require this certification provision to be included in all approved subcontracts. A bidder that is not able to certify and disclose participation will not be considered responsible and eligible for award of the contract. In order to fulfill this requirement, it shall not be necessary that an applicable program sponsor be currently taking or that it will take applications for apprenticeship, training or employment during the performance of the work of this contract.

TO BE RETURNED WITH BID

IV. DISCLOSURES

A. The disclosures hereinafter made by the bidder are each a material representation of fact upon which reliance is placed should the Department enter into the contract with the bidder. The Department may terminate the contract if it is later determined that the bidder rendered a false or erroneous disclosure, and the surety providing the performance bond shall be responsible for completion of the contract.

B. Financial Interests and Conflicts of Interest

1. Section 50-35 of the Illinois Procurement Code provides that all bids of more than \$10,000 shall be accompanied by disclosure of the financial interests of the bidder. This disclosed information for the successful bidder, will be maintained as public information subject to release by request pursuant to the Freedom of Information Act.

The financial interests to be disclosed shall include ownership or distributive income share that is in excess of 5%, or an amount greater than 60% of the annual salary of the Governor, of the bidding entity or its parent entity, whichever is less, unless the contractor or bidder is a publicly traded entity subject to Federal 10K reporting, in which case it may submit its 10K disclosure in place of the prescribed disclosure. If a bidder is a privately held entity that is exempt from Federal 10K reporting, but has more than 400 shareholders, it may submit the information that Federal 10K companies are required to report, and list the names of any person or entity holding any ownership share that is in excess of 5%. The disclosure shall include the names, addresses, and dollar or proportionate share of ownership of each person making the disclosure, their instrument of ownership or beneficial relationship, and notice of any potential conflict of interest resulting from the current ownership or beneficial interest of each person making the disclosure having any of the relationships identified in Section 50-35 and on the disclosure form.

In addition, all disclosures shall indicate any other current or pending contracts, proposals, leases, or other ongoing procurement relationships the bidding entity has with any other unit of state government and shall clearly identify the unit and the contract, proposal, lease, or other relationship.

2. <u>Disclosure Forms</u>. Disclosure Form A is attached for use concerning the individuals meeting the above ownership or distributive share requirements. Subject individuals should be covered each by one form. In addition, a second form (Disclosure Form B) provides for the disclosure of current or pending procurement relationships with other (non-IDOT) state agencies. **The forms must be included with each bid or incorporated by reference**.

C. Disclosure Form Instructions

Form A: For bidders that have previously submitted the information requested in Form A

The Department has retained the Form A disclosures submitted by all bidders responding to these requirements for the April 24, 1998 or any subsequent letting conducted by the Department. The bidder has the option of submitting the information again or the bidder may sign the following certification statement indicating that the information previously submitted by the bidder is, as of the date of signature, current and accurate. The Certification must be signed and dated by a person who is authorized to execute contracts for the bidding company. Before signing this certification, the bidder should carefully review its prior submissions to ensure the Certification is correct. If the Bidder signs the Certification, the Bidder should proceed to Form B instructions.

CERTIFICATION STATEMENT

I have determined that the Form A disclosure informaccurate, and all forms are hereby incorporated by forms or amendments to previously submitted for	y reference in this bid. Any nec	
(Bidding 0	Company)	_
Name of Authorized Representative (type or print)	Title of Authorized Representat	ive (type or print)
Signature of Auth	norized Representative	Date

Form A: For bidders who have NOT previously submitted the information requested in Form A

If the bidder is a publicly traded entity subject to Federal 10K reporting, the 10K Report may be submitted to meet the requirements of Form A. If a bidder is a privately held entity that is exempt from Federal 10K reporting, but has more than 400 shareholders, it may submit the information that Federal 10K companies are required to report, and list the names of any person or entity holding any ownership share that is in excess of 5%. If a bidder is not subject to Federal 10K reporting, the bidder must determine if any individuals are required by law to complete a financial disclosure form. To do this, the bidder should answer each of the following questions. A "YES" answer indicates Form A must be completed. If the answer to each of the following questions is "NO", then the NOT APPLICABLE STATEMENT on the second page of Form A must be signed and dated by a person that is authorized to execute contracts for the bidding company. Note: These questions are for assistance only and are not required to be completed.

1	١.	Does anyone in your organization have a direct or beneficial ownership share of greater than 5% of the bidding entity or parent entity? YES NO
2	2.	Does anyone in your organization have a direct or beneficial ownership share of less than 5%, but which has a value greater than \$90,420.00? YES NO
3	3.	Does anyone in your organization receive more than \$90,420.00 of the bidding entity's or parent entity's distributive income? (Note: Distributive income is, for these purposes, any type of distribution of profits. An annual salary is not distributive income.) YES NO
4	١.	Does anyone in your organization receive greater than 5% of the bidding entity's or parent entity's total distributive income, but which is less than \$90,420.00? YES NO
		(Note: Only one set of forms needs to be completed <u>per person per bid</u> even if a specific individual would require a yes answer to more than one question.)
the bid	ddin nori:	answer to any of these questions requires the completion of Form A. The bidder must determine each individual in the bidding entity or ag entity's parent company that would cause the questions to be answered "Yes". Each form must be signed and dated by a person that zed to execute contracts for your organization. Photocopied or stamped signatures are not acceptable . The person signing can be, not have to be, the person for which the form is being completed. The bidder is responsible for the accuracy of any information provided.
		wer to each of the above questions is "NO", then the <u>NOT APPLICABLE STATEMENT</u> on page 2 of Form A must be signed and dated on that is authorized to execute contracts for your company.
the bid	ddin <i>ICA</i>	Identifying Other Contracts & Procurement Related Information Disclosure Form B must be completed for each bid submitted by gentity. It must be signed by an individual who is authorized to execute contracts for the bidding entity. Note: Signing the NOT BLE STATEMENT on Form A does not allow the bidder to ignore Form B. Form B must be completed, signed and dated or the bidder considered nonresponsive and the bid will not be accepted.
ongoii	ng p	er shall identify, by checking Yes or No on Form B, whether it has any pending contracts (including leases), bids, proposals, or other procurement relationship with any other (non-IDOT) State of Illinois agency. If "No" is checked, the bidder only needs to complete the box on the bottom of Form B. If "Yes" is checked, the bidder must do one of the following:
agend attach contra	y pe led : acts	If the bidder did not submit an Affidavit of Availability to obtain authorization to bid, the bidder must list all non-IDOT State of Illinois ending contracts, leases, bids, proposals, and other ongoing procurement relationships. These items may be listed on Form B or on an sheet(s). Do not include IDOT contracts. Contracts with cities, counties, villages, etc. are not considered State of Illinois agency and are not to be included. Contracts with other State of Illinois agencies such as the Department of Natural Resources or the Capital nent Board must be included. Bidders who submit Affidavits of Availability are suggested to use Option II.
"See /	Affic y pe	If the bidder is required and has submitted an Affidavit of Availability in order to obtain authorization to bid, the bidder may write or type davit of Availability" which indicates that the Affidavit of Availability is incorporated by reference and includes all non-IDOT State of Illinois ending contracts, leases, bids, proposals, and other ongoing procurement relationships. For any contracts that are not covered by the of Availability, the bidder must identify them on Form B or on an attached sheet(s). These might be such things as leases.
Bidde	ers (Submitting More Than One Bid
	e in	ubmitting multiple bids may submit one set of forms consisting of all required Form A disclosures and one Form B for use with all bids. dicate in the space provided below the bid item that contains the original disclosure forms and the bid items which incorporate the forms are.
•		e bid submitted for letting item contains the Form A disclosures or Certification Statement and the Form B closures. The following letting items incorporate the said forms by reference:
_		

RETURN WITH BID/OFFER

ILLINOIS DEPARTMENT OF TRANSPORTATION

Highway Authority?

Form A Financial Information & Potential Conflicts of Interest Disclosure

Contractor Name		
Legal Address		
City, State, Zip		
Telephone Number	Email Address	Fax Number (if available)
ILCS 500). Vendors desiring to enter int potential conflict of interest information a publicly available contract file. This Form	o a contract with the State of Illinois is specified in this Disclosure Form. In A must be completed for bids in may submit a 10K disclosure (or expression)	1 50-35 of the Illinois Procurement Code (30 must disclose the financial information and This information shall become part of the excess of \$10,000, and for all open-ended equivalent if applicable) in satisfaction of
DISC	CLOSURE OF FINANCIAL INFOR	<u>MATION</u>
of ownership or distributive income share	e in excess of 5%, or an interest which lake copies of this form as necessarquirements)	n interest in the BIDDER (or its parent) in terms in has a value of more than \$90,420.00 (60% ary and attach a separate Disclosure Form
ADDRESS		
Type of ownership/distributable in	come share:	
stock sole proprietors % or \$ value of ownership/distributab		other: (explain on separate sheet):
 Disclosure of Potential Conflicts of potential conflict of interest relationships describe. 		indicate which, if any, of the following s "Yes", please attach additional pages and
(a) State employment, currently or	in the previous 3 years, including conf	ractual employment of services. YesNo
If your answer is yes, please an	swer each of the following questions.	· <u> </u>

1. Are you currently an officer or employee of either the Capitol Development Board or the Illinois Toll

2. Are you currently appointed to or employed by any agency of the State of Illinois? If you are currently appointed to or employed by any agency of the State of Illinois, and your annual salary exceeds \$90,420.00, (60% of the Governor's salary as of 7/1/01) provide the name the State

agency for which you are employed and your annual salary.

Yes ___No __

RETURN WITH BID/OFFER

3.	If you are currently appointed to or employed by any agency of the St salary exceeds \$90,420.00, (60% of the Governor's salary as of 7/1 (i) more than 7 1/2% of the total distributable income of your firm corporation, or (ii) an amount in excess of the salary of the Governor	/01) are you entitled to receive n, partnership, association or
4.	If you are currently appointed to or employed by any agency of the St salary exceeds \$90,420.00, (60% of the Governor's salary as of 7/1 or minor children entitled to receive (i) more than 15% in aggregate of your firm, partnership, association or corporation, or (ii) an amous salary of the Governor?	/01) are you and your spouse of the total distributable income
	employment of spouse, father, mother, son, or daughter, including cont previous 2 years.	tractual employment for services
If your	answer is yes, please answer each of the following questions.	YesNo
1.	Is your spouse or any minor children currently an officer or employee Board or the Illinois Toll Highway Authority?	of the Capitol Development YesNo
2.	Is your spouse or any minor children currently appointed to or employ of Illinois? If your spouse or minor children is/are currently appointed agency of the State of Illinois, and his/her annual salary exceeds \$6 Governor's salary as of 7/1/01) provide the name of the spouse and/of the State agency for which he/she is employed and his/her annual salary exceeds \$6 Governor's salary as of 7/1/01 provide the name of the spouse and/of the State agency for which he/she is employed and his/her annual salary exceeds \$6 Governor's salary as of 7/1/01 provide the name of the spouse and/of the State agency for which he/she is employed and his/her annual salary exceeds \$6 Governor's salary as of 7/1/01 provide the name of the spouse and/of the State agency for which he/she is employed and his/her annual salary exceeds \$6 Governor's salary as of 7/1/01 provide the name of the spouse and/of the State agency for which he/she is employed and his/her annual salary exceeds \$6 Governor's salary as of 7/1/01 provide the name of the spouse and/of the State agency for which he/she is employed and his/her annual salary exceeds \$6 Governor's salary as of 7/1/01 provide the name of the spouse and/of the State agency for which he/she is employed and his/her annual salary exceeds \$6 Governor's exceeds \$	I to or employed by any 90,420.00, (60% of the or minor children, the name
3.	If your spouse or any minor children is/are currently appointed to or en State of Illinois, and his/her annual salary exceeds \$90,420.00, (60% as of 7/1/01) are you entitled to receive (i) more than 71/2% of the total firm, partnership, association or corporation, or (ii) an amount in Governor?	of the salary of the Governor al distributable income of your
4.	If your spouse or any minor children are currently appointed to or em State of Illinois, and his/her annual salary exceeds \$90,420.00, (60% of 7/1/01) are you and your spouse or any minor children entitled to rece aggregate of the total distributable income from your firm, partnership, (ii) an amount in excess of 2 times the salary of the Governor?	of the Governor's salary as of sive (i) more than 15% in the association or corporation, or
		Yes No
unit of	e status; the holding of elective office of the State of Illinois, the govern local government authorized by the Constitution of the State of Illinois currently or in the previous 3 years.	
	nship to anyone holding elective office currently or in the previous 2 ye daughter.	ars; spouse, father, mother, YesNo
Americ of the S	tive office; the holding of any appointive government office of the State a, or any unit of local government authorized by the Constitution of the State of Illinois, which office entitles the holder to compensation in exceptance of that office currently or in the previous 3 years.	State of Illinois or the statues
	nship to anyone holding appointive office currently or in the previous 2 ydaughter.	years; spouse, father, mother, YesNo
(g) Employ	yment, currently or in the previous 3 years, as or by any registered lobb	yist of the State government. YesNo

RETURN WITH BID/OFFER

(h) Relationship to a son, or daughter.	nyone who is or was a registered lobbyist in the previous 2 years; spou YesI			
committee registe	nployment, currently or in the previous 3 years, by any registered elected with the Secretary of State or any county clerk of the State of Illino registered with either the Secretary of State or the Federal Board of Elec	ois, or any political ections.		
last 2 years by an county clerk of the	nyone; spouse, father, mother, son, or daughter; who was a compensary registered election or re-election committee registered with the Secre e State of Illinois, or any political action committee registered with eith ral Board of Elections.	etary of State or any er the Secretary of		
	Yes I	No <u> </u>		
	APPLICABLE STATEMENT			
This Disclosure Fo	rm A is submitted on behalf of the INDIVIDUAL named on previou	s page.		
Completed by:				
	Name of Authorized Representative (type or print)	-		
Completed by:		_		
Commission de la commis	Title of Authorized Representative (type or print)			
Completed by:	Signature of Individual or Authorized Representative	 Date		
	NOT APPLICABLE STATEMENT			
	that no individuals associated with this organization meet the crit tion of this Form A.	eria that would		
This Disclosure Form A is submitted on behalf of the CONTRACTOR listed on the previous page.				
	Name of Authorized Representative (type or print)	-		
	Title of Authorized Representative (type or print)	-		
	Signature of Authorized Representative	Date		

RETURN WITH BID/OFFER

ILLINOIS DEPARTMENT OF TRANSPORTATION

Form B Other Contracts & Procurement Related Information Disclosure

		2.00.000.0	
Contractor Name			
Legal Address			
City, State, Zip			
Telephone Number	Email Address	Fax Number (if available	:)
Disclosure of the information	contained in this Form is required by the	Section 50-35 of the Illinois Pr	ocurement
Act (30 ILCS 500). This infor	mation shall become part of the publicly a	vailable contract file. This Forn	n B must
be completed for bids in exce	ess of \$10,000, and for all open-ended cor	ntracts.	
DISCLOSUR	RE OF OTHER CONTRACTS AND PROC	CUREMENT RELATED INFOR	MATION
has any pending contracts (any other State of Illinois ag	racts & Procurement Related Information including leases), bids, proposals, or othe ency: Yes No der only needs to complete the signature	r ongoing procurement relation	ship with
	entify each such relationship by showing S roject number (attach additional pages as		
	THE FOLLOWING STATEMENT	MUST BE SIGNED	
_	Name of Authorized Representative	e (type or print)	
_	Title of Authorized Representative	(type or print)	
_	0' (-	- Data
	Signature of Authorized Repre	esentative	Date

SPECIAL NOTICE TO CONTRACTORS

The following requirements of the Illinois Department of Human Rights' Rules and Regulations are applicable to bidders on all construction contracts advertised by the Illinois Department of Transportation:

CONSTRUCTION EMPLOYEE UTILIZATION PROJECTION

- (a) All bidders on construction contracts shall complete and submit, along with and as part of their bids, a Bidder's Employee Utilization Form (Form BC-1256) setting forth a projection and breakdown of the total workforce intended to be hired and/or allocated to such contract work by the bidder including a projection of minority and female employee utilization in all job classifications on the contract project.
- (b) The Department of Transportation shall review the Employee Utilization Form, and workforce projections contained therein, of the contract awardee to determine if such projections reflect an underutilization of minority persons and/or women in any job classification in accordance with the Equal Employment Opportunity Clause and Section 7.2 of the Illinois Department of Human Rights' Rules and Regulations for Public Contracts adopted as amended on September 17, 1980. If it is determined that the contract awardee's projections reflect an underutilization of minority persons and/or women in any job classification, it shall be advised in writing of the manner in which it is underutilizing and such awardee shall be considered to be in breach of the contract unless, prior to commencement of work on the contract project, it submits revised satisfactory projections or an acceptable written affirmative action plan to correct such underutilization including a specific timetable geared to the completion stages of the contract.
- (c) The Department of Transportation shall provide to the Department of Human Rights a copy of the contract awardee's Employee Utilization Form, a copy of any required written affirmative action plan, and any written correspondence related thereto. The Department of Human Rights may review and revise any action taken by the Department of Transportation with respect to these requirements.



Contract No. 62350 COOK County Section 2001-167R Project NHI-805(59)162 Route FAI 80 District 1 Construction Funds

PART I. IDENTIFIC	ATION								D .00.		00	oudou	J a	nao			
Dept. Human Rights	s #						Du	ıration	of Pro	ject: _					_		
Name of Bidder:																	
PART II. WORKFO A. The undersigned which this contract wo projection including a projection	bidder hark is to be	as analyz e perform ı for mino	ed mir ed, an rity an	d for the d fema TA	he locat ale empl ABLE A	ions fro loyee u	om whi itilizatio	ch the lon in all	oidder r	ecruits	employ	ees, and he	ereby su	bmits the fo cated to thi TA	llow s co BLE	ing workf ntract: B	orce
		TOTA	L Wo	rkforce	Project	tion for	Contra	act						CURRENT		IPLOYEE SIGNED	ΞS
				MINO	ORITY E	EMPLC					AINEES			TO C		RACT	
JOB CATEGORIES	EMPLO	TAL DYEES		ACK	HISP		MIN	HER IOR.	TIC	REN- ES	TRA	HE JOB INEES	EMI	TOTAL PLOYEES		EMPLO	
OFFICIALS (MANAGERS)	M	F	M	F	M	F	M	F	M	F	M	F	M	F		M	F
SUPERVISORS																	
FOREMEN																	
CLERICAL EQUIPMENT OPERATORS																	
MECHANICS																	
TRUCK DRIVERS																	
IRONWORKERS																	
CARPENTERS																	
CEMENT MASONS																	
ELECTRICIANS PIPEFITTERS, PLUMBERS																	
PAINTERS LABORERS.																	
SEMI-SKILLED LABORERS, UNSKILLED																	
TOTAL																	
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TRAINING APPRENTICES	М	F	M	F	M	F	M	F									
ON THE JOB							1		+								

TRAINEES

Please specify race of each employee shown in Other Minorities column.

own in Other Minorities column.

BC 1256 - Pg 1 (Rev. 3/98)

Note: See instructions on the next page

IL 494-0454

^{*}Other minorities are defined as Asians (A) or Native Americans (N).

Contract No. 62350 COOK County Section 2001-167R Project NHI-805(59)162 Route FAI 80 District 1 Construction Funds

PART II. WORKFORCE PROJECTION - continued

B.	. Included in "Total Employees" under Table A is the total number of new hires that would be employed in the event the undersigned bidder is awarded this contract.											
	recrui		the		(number) __ which _ new hires	the would	contract be recru	projed	t is the are	locate a in wh	new hire d; and/or ich the bidde	es would be (number) r's principal
	office	or base of op	peration	n is located.								
C.		ed in "Total E signed bidde										rectly by the
	The ube dir	ndersigned bectly employed by subco	oidder e ed by t ontracto	estimates that he prime colors.	at (number) ntractor and	d that (number)				per	persons will sons will be
PART I	III. AFF	IRMATIVE A	CTION	I PLAN								
A.	utiliza in any comm (geare utiliza	indersigned bette to projection projection in job categor tencement of the costion are corresportment of	n includy, and f work, mpleticected.	ded under Pa in the event develop ar on stages of Such Affirm	ART II is de that the unit a submit a the contra	etermin ndersig a writte act) wh	ed to be ined bidd nereby d	an under der is aw ative Ac eficiencie	rutilizatio arded th tion Plar es in mi	n of min nis controllis ninclud nority a	nority person ract, he/she ing a specif and/or female	s or women will, prior to ic timetable e employee
B.	submi	indersigned Itted herein, a rt of the contr	and the	goals and tir								
Comp	any						Te	elephone	Number			
Addre	ss											
					NOTICE I	REGAR	DING SIG	SNATURE				
	The B	idder's signatus to be comple	ure on th ted only	ne Proposal S r if revisions a	ignature She e required.	eet will o	constitute	the signin	g of this f	orm. Th	e following sig	nature block
	Signa	ture:					Title: _				Date:	
Instruct	ions:	All tables mus	t include	subcontractor p	ersonnel in ac	ddition to	prime con	tractor pers	onnel.			
Table A	. -	(Table B) that	will be a	llocated to cont	ract work, and	l include	all apprent	ices and or	n-the-job tr	ainees	al number curre The "Total Empl ed on the contra	oyees" column
Table B	· -	Include all emplormently employed	•	currently employ	ed that will be	e allocate	ed to the co	ntract work	including	any appre	entices and on-t	he-job trainees
Table C	; -	Indicate the ra	cial brea	kdown of the to	tal apprentices	s and on-	-the-job tra	inees show	n in Table	A.	BC-1256-Pg	ı. 2 (Rev. 3/98)

ADDITIONAL FEDERAL REQUIREMENTS

In addition to the Required Contract Provisions for Federal-Aid Construction Contracts (FHWA 1273), all bidders make the following certifications.

By the execution of this proposal, the signing bidder certifies that the bidding entity has not, either A. directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken any action, in restraint of free competitive bidding in connection with the submitted bid. This statement made by the undersigned bidder is true and correct under penalty of perjury under the laws of the United States.

B.	<u>CER</u>	TIFICATION, EQUAL EMPLOYMENT OPPORTUNITY:
	1.	Have you participated in any previous contracts or subcontracts subject to the equal opportunity clause. YES NO
	2.	If answer to #1 is yes, have you filed with the Joint Reporting Committee, the Director of OFCC, any Federal agency, or the former President's Committee on Equal Employment Opportunity, all reports due under the applicable filing requirements of those organizations? YES NO

Contract No. 62350 COOK County Section 2001-167R Project NHI-805(59)162 Route FAI 80 District 1 Construction Funds

PROPOSAL SIGNATURE SHEET

The undersigned bidder hereby makes and submits this bid on the subject Proposal, thereby assuring the Department that all requirements of the Invitation for Bids and rules of the Department have been met, that there is no misunderstanding of the requirements of paragraph 3 of this Proposal, and that the contract will be executed in accordance with the rules of the Department if an award is made on this bid.

	Firm Name	
(IF AN INDIVIDUAL)		
	Firm Name	
	Ву	
(IF A CO-PARTNERSHIP)	Business Address	
		Name and Address of All Members of the Firm:
_		
_		
	Corporate Name	
	Ву	Signature of Authorized Representative
(IF A CORPORATION)		Signature of Admonaged Representative
		Typed or printed name and title of Authorized Representative
	•	
	Attest	Signature
(IF A JOINT VENTURE, USE THIS SECTION FOR THE MANAGING PARTY AND THE	Business Address	
SECOND PARTY SHOULD SIGN BELOW)		
	Corporate Name	
	Ву	
(IF A JOINT VENTURE)		Signature of Authorized Representative
		Typed or printed name and title of Authorized Representative
	Attest	Signature
	Dusiness Address	•
	business Address	



Division of Highways Proposal Bid Bond

(Effective November 1, 1992)

	Item No.
	Letting Date
KNOW ALL MEN BY THESE PRESENTS, That We	
KNOW ALL MEN BT THESE PRESENTS, That We	
as PRINCIPAL, and	
Article 102.09 of the "Standard Specifications for Road and Brid	as SURETY, are INOIS in the penal sum of 5 percent of the total bid price, or for the amount specified in lege Construction" in effect on the date of invitation for bids, whichever is the lesser sum, well ment of which we bind ourselves, our heirs, executors, administrators, successors and assigns.
	IS SUCH, That Whereas, the PRINCIPAL has submitted a bid proposal to the STATE OF the improvement designated by the Transportation Bulletin Item Number and Letting Date
in the bidding and contract documents, submit a DBE Utilization Department, the PRINCIPAL shall enter into a contract in according such specified with grayment of labor and material furnished in the prosecution therefor to enter into such contract and to give the specified bond, the	d proposal of the PRINCIPAL; and if the PRINCIPAL shall, within the time and as specified in Plan that is accepted and approved by the Department; and if, after award by the dance with the terms of the bidding and contract documents including evidence of the required good and sufficient surety for the faithful performance of such contract and for the prompt of; or if, in the event of the failure of the PRINCIPAL to make the required DBE submission PRINCIPAL pays to the Department the difference not to exceed the penalty hereof between for which the Department may contract with another party to perform the work covered by erwise, it shall remain in full force and effect.
Surety shall pay the penal sum to the Department within fifteen (AL has failed to comply with any requirement as set forth in the preceding paragraph, then (15) days of written demand therefor. If Surety does not make full payment within such amount owed. Surety is liable to the Department for all its expenses, including attorney's e or in part.
In TESTIMONY WHEREOF, the said PRINCIPAL and the day of	e said SURETY have caused this instrument to be signed by their respective officers thisA.D.,
PRINCIPAL	SURETY
(Company Name)	(Company Name)
By:	Ву:
By: (Signature & Title)	(Signature of Attorney-in-Fact)
Nota	ry Certification for Principal and Surety
STATE OF ILLINOIS, COUNTY OF	
T	, a Notary Public in and for said County, do hereby certify that
and	, a rotary ruble in and for said county, do neteby certify that
	uals signing on behalf of PRINCIPAL & SURETY)
who are each personally known to me to be the same persons wh	nose names are subscribed to the foregoing instrument on behalf of PRINCIPAL and ged respectively, that they signed and delivered said instrument as their free and voluntary
Given under my hand and notarial seal thisd	lay of, A.D
My commission expires	
	Notary Public
	t, the Principal may file an Electronic Bid Bond. By signing below the Principal is ensuring cipal and Surety are firmly bound unto the State of Illinois under the conditions of the bid
Electronic Bid Bond ID# Company/Bidder Name	Signature and Title

PROPOSAL ENVELOPE



PROPOSALS

for construction work advertised for bids by the Illinois Department of Transportation

Item No.	Item No.	Item No.

Submitted By:

Name:	
Address:	
Phone No.	

Bidders should use an IDOT proposal envelope or affix this form to the front of a 10" x 13" envelope for the submittal of bids. If proposals are mailed, they should be enclosed in a second or outer envelope addressed to:

Engineer of Design and Environment - Room 323 Illinois Department of Transportation 2300 South Dirksen Parkway Springfield, Illinois 62764

NOTICE

Individual bids, including Bid Bond and/or supplemental information if required, should be securely stapled.

CONTRACTOR OFFICE COPY OF CONTRACT SPECIFICATIONS

NOTICE

None of the following material needs to be returned with the bid package unless the special provisions require documentation and/or other information to be submitted.

Contract No. 62350 COOK County Section 2001-167R Project NHI-805(59)162 Route FAI 80 District 1 Construction Funds



Illinois Department of Transportation

NOTICE TO BIDDERS

- 1. TIME AND PLACE OF OPENING BIDS. Sealed proposals for the improvement described herein will be received by the Department of Transportation at the Harry R. Hanley Building, 2300 South Dirksen Parkway, in Springfield, Illinois until 10:00 o'clock a.m., June 11, 2004. All bids will be gathered, sorted, publicly opened and read in the auditorium at the Department of Transportation's Harry R. Hanley Building shortly after the 10:00 a.m. cut off time.
- 2. **DESCRIPTION OF WORK**. The proposed improvement is identified and advertised for bids in the Invitation for Bids as:

Contract No. 62350 COOK County Section 2001-167R Project NHI-805(59)162 Route FAI 80 District 1 Construction Funds

3.95 miles of reconstruction of Bernice Avenue and 175th Street, along with milling and bituminous concrete surface on 175th Street, construction of retaining walls along FAI Route 80/94/U.S. Route 6 storm sewer work and landscaping all for future improvements of FAI Route 80/94/U.S. Route 6 from Illinois Route 83 to Wentworth Avenue in Lansing.

- 3. INSTRUCTIONS TO BIDDERS. (a) This Notice, the invitation for bids, proposal and letter of award shall, together with all other documents in accordance with Article 101.09 of the Standard Specifications for Road and Bridge Construction, become part of the contract. Bidders are cautioned to read and examine carefully all documents, to make all required inspections, and to inquire or seek explanation of the same prior to submission of a bid.
 - (b) State law, and, if the work is to be paid wholly or in part with Federal-aid funds, Federal law requires the bidder to make various certifications as a part of the proposal and contract. By execution and submission of the proposal, the bidder makes the certification contained therein. A false or fraudulent certification shall, in addition to all other remedies provided by law, be a breach of contract and may result in termination of the contract.
- 4. AWARD CRITERIA AND REJECTION OF BIDS. This contract will be awarded to the lowest responsive and responsible bidder considering conformity with the terms and conditions established by the Department in the rules, Invitation for Bids and contract documents. The issuance of plans and proposal forms for bidding based upon a prequalification rating shall not be the sole determinant of responsibility. The Department reserves the right to determine responsibility at the time of award, to reject any or all proposals, to readvertise the proposed improvement, and to waive technicalities.

By Order of the Illinois Department of Transportation

Timothy W. Martin, Secretary

BD 351 (Rev. 01/2003)

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

INDEX FOR SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS

Adopted January 1, 2004

This sheet contains a listing of SUPPLEMENTAL SPECIFICATIONS, frequently used RECURRING SPECIAL PROVISIONS and LOCAL ROADS AND STREETS RECURRING SPECIAL PROVISIONS.

ERRATA Standard Specifications for Road and Bridge Construction (Adopted 1-1-02) (Revised 1-1-04)

SUPPLEMENTAL SPECIFICATIONS

Std. Sp	pec. Sec. Pag	ge No.
101	Definition of Terms	1
105	Control of Work	2
205	Embankment	3
251	Mulch	4
440	Removal of Existing Pavement and Appurtenances	5
442	Pavement Patching	6
449	Removal and Replacement of Preformed Elastomeric Compression Joint Seal	7
501	Removal of Existing Structures	8
503	Concrete Structures	9
505	Steel Structures	10
506	Cleaning and Painting Metal Structures	13
508	Reinforcement Bars	14
512	Piling	15
540	Box Culverts	16
669	Removal and Disposal of Regulated Substances	18
671	Mobilization	19
702	Work Zone Traffic Control Devices	20
1003	Fine Aggregates	21
1004	Coarse Aggregate	22
1020	Portland Cement Concrete	25
1021	Concrete Admixtures	32
1022	Concrete Curing Materials	33
1024	Nonshrink Grout	35
1056	Preformed Flexible Gaskets and Mastic Joint Sealer for Sewer and Culvert Pipe	37
1060	Waterproofing Materials	38
1069	Pole and Tower	39
1070	Foundation and Breakaway Devices	40
1077	Post and Foundation	42
1080	Fabric Materials	43
1083	Elastomeric Bearings	46
1094	Overhead Sign Structures	47
1103	Portland Cement Concrete Equipment	48

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

RECURRING SPECIAL PROVISIONS

The following RECURRING SPECIAL PROVISIONS indicated by an "X" are applicable to this contract and are included by reference:

CHE	CK S	SHEET# F	PAGE NO.
1	Х	State Required Contract Provisions All Federal-aid Construction Contracts	
		(Eff. 2-1-69) (Rev. 10-1-83)	49
2	X	Subletting of Contracts (Federal-aid Contracts) (Eff. 1-1-88) (Rev. 5-1-93)	51
3	X	EEO (Eff. 7-21-78) (Rev. 11-18-80)	52
4		Specific Equal Employment Opportunity Responsibilities	
		NonFederal-aid Contracts (Eff. 3-20-69) (Rev. 1-1-94)	63
5		Required Provisions - State Contracts (Eff. 4-1-65) (Rev. 4-1-93)	69
6		Reserved	74
7	X	Asphalt Quantities and Cost Reviews (Eff. 7-1-88)	75
8	X	National Pollutant Discharge Elimination System Permit	
		(Eff. 7-1-94) (Rev. 1-1-03)	76
9	X	Haul Road Stream Crossings, Other Temporary Stream Crossings and	
		In-Stream Work Pads (Eff. 1-2-92) (Rev. 1-1-98)	77
10		Construction Layout Stakes Except for Bridges (Eff. 1-1-99) (Rev. 1-1-02)	
11	X	Construction Layout Stakes (Eff. 5-1-93) (Rev. 1-1-02)	
12		Use of Geotextile Fabric for Railroad Crossing (Eff. 1-1-95) (Rev. 1-1-97)	84
13		Asphaltic Emulsion Slurry Seal and Fibrated Asphaltic Emulsion Slurry Seal	_
_		(Eff. 8-1-89) (Rev. 2-1-97)	86
14		Bituminous Surface Treatments Half-Smart (Eff. 7-1-93) (Rev. 1-1-97)	
15	X	Quality Control/Quality Assurance of Bituminous Concrete Mixtures	
		(Eff. 1-1-00) (Rev. 1-1-04)	98
16		Subsealing of Concrete Pavements (Eff. 11-1-84) (Rev. 2-1-95)	
17		Bituminous Surface Removal (Cold Milling) (Eff. 11-1-87) (Rev. 10-15-97)	
18	X	Resurfacing of Milled Surfaces (Eff. 10-1-95)	
19		PCC Partial Depth Bituminous Patching (Eff. 1-1-98)	
20		Patching with Bituminous Overlay Removal (Eff. 10-1-95) (Rev. 7-1-99)	
21		Reserved	
22		Protective Shield System (Eff. 4-1-95) (Rev. 1-1-03)	
23		Polymer Concrete (Eff. 8-1-95) (Rev.1-1-03)	
24		Controlled Low-Strength Material (CLSM) (Eff. 1-1-90) (Rev. 1-1-00)	
25	X	Pipe Underdrains (Eff. 9-9-87) (Rev. 1-1-98)	
26		Guardrail and Barrier Wall Delineation (Eff. 12-15-93) (Rev. 1-1-97)	139
27		Bicycle Racks (Eff. 4-1-94) (Rev. 1-1-97)	
28		Give em a Brake Sign (Eff. 8-1-89) (Rev. 8-1-91)	
29		Portable Changeable Message Signs (Eff. 11-1-93) (Rev. 2-1-96)	
30		Reserved	
31		Night Time Inspection of Roadway Lighting (Eff. 5-1-96)	149
32		Reserved	_
33	X	English Substitution of Metric Bolts (Eff. 7-1-96)	
34	X	English Substitution of Metric Boils (Eff. 7-1-96)	
-	^		
35		Polymer Modified Emulsified Asphalt (Eff. 5-15-89) (Rev. 1-1-04)	
36		Corrosion Inhibitor (Eff. 3-1-80) (Rev. 7-1-99)	156
37		Quality Control of Concrete Mixtures at the Plant-Single A	157
20		(Eff. 8-1-00) (Rev. 1-1-04)	157
38		Quality Control of Concrete Mixtures at the Plant-Double A	400
20	v	(Eff. 8-1-00) (Rev. 1-1-04)	163
39	Х	Quality Control/Quality Assurance of Concrete Mixtures	474
		(Eff. 4-1-92) (Rev. 1-1-04)	171

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

40	Traffic Barrier Terminal Type 1, Special (Eff. 8-1-94) (Rev. 1-1-03)	185
41	Reserved	186
42	Segregation Control of Bituminous Concrete (Eff. 7-15-97)	187
43	Reserved	190

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

LOCAL ROADS AND STREETS RECURRING SPECIAL PROVISIONS

Table of Contents

CHECK S	SHEET# PA	AGE NO.
LRS1	Cooperation With Utilities	
LRS2	Furnished Excavation	194
LRS3	Construction Zone Traffic Control	195
LRS4	Flaggers In Work Zones	196
LRS5	Reserved	197
LRS6	Bidding Requirements And Conditions For Contract Proposals	198
LRS7	Bidding Requirements And Conditions For Material Proposals	204
LRS8	Failure To Complete The Work On Time	
LRS9	Bituminous Surface Treatments	211
LRS10	Reflective Sheeting Type C	212
LRS11	Employment Practices	213
LRS12	Wages Of Employees On Public Works	215
LRS13	Selection Of Labor	216

Local Road Reconstruction 2001-167R Desc:

Sec.: Co.: Cook

TABLE OF CONTENTS

GENERAL INFORMATION	1
LOCATION OF PROJECT	1
DESCRIPTION OF PROJECT	1
COMPLETION DATE PLUS GUARANTEED WORKING DAYS	2
COORDINATION WITH ADJACENT AND/OR OVERLAPPING CONTRACTS	3
MAINTENANCE OF ROADWAYS	4
STATUS OF UTILITIES TO BE ADJUSTED	4
STORM WATER POLLUTION PLAN FORM	8
TRAFFIC CONTROL PLAN	21
WORK RESTRICTIONS	22
MAINTENANCE OF TRAFFIC	22
TRAFFIC CONTROL FOR WORK ZONE AREAS	23
TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS)	24
WORK ZONE TRAFFIC CONTROL (LUMP SUM PAYMENT)	26
CIVIL	27
AGGREGATE SURFACE COURSE FOR TEMPORARY ACCESS	28
COMPOST FURNISH AND PLACE	
CONCRETE BARRIER (DISTRICT 1)	30
ENGINEER'S FIELD OFFICE, TYPE A (SPECIAL)	32
FENCE REMOVAL	33
GENERAL REQUIREMENTS FOR WEED CONTROL SPRAYING	33
NON-SPECIAL WASTE WORKING CONDITIONS	35
POROUS GRANULAR EMBANKMENT, SUBGRADE	38
REMOVE EXISTING FLASHING BEACON INSTALLATION COMPLETE	39
RECLAIMED ASPHALT PAVEMENT (RAP) FOR TEMPORARY ACCESS	ENTRANCES
AND/OR AGGREGATE SHOULDERS, TYPE B	40
SEEDING, CLASS 4B (MODIFIED)	40
SUPPLEMENTAL WATERING	41
TEMPORARY FENCE, SPECIAL	42
TEMPORARY PAVEMENT	42
WEED CONTROL, TEASEL	43
DRAINAGE & UTILITIES	44

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

FITTINGS. PRESTRESSED CONCRETE CYLINDER PIPE	47
915 MM TEMPORARY PLUG INSTALLED AND REMOVED	47
COMBINATION AIR RELEASE AND VACUUM RELIEF VALVE IN 1.8M DIAMETER	VALVE
VAULT	48
FLUSHING STATION	48
915MM DIAMETER BUTTERFLY VALVE IN 2.1 M DIAMETER VALVE VAULT	48
1400MM STEEL SLEEVE- OPEN CUT	48
1400MM STEEL SLEEVE- AUGUR	49
AUGUR PIT	50
CONNECTION TO EXISTING WATER MAIN	50
FACILITY ADJUSTMENTS/REMOVAL AND REPLACEMENTS	50
915MM CUT AND PLUG INSTALLED	51
PRESSURE TEST AND DISINFECTION OF 915MM WATER MAIN	51
DUCTILE IRON WATER MAIN CLASS 52 WITH POLYETHYLENE ENCASEMENT	52
DUCTILE IRON FITTINGS	53
STEEL SLEEVE- OPEN CUT	53
VALVE VAULTS	54
400MM BLIND FLANGE CAP	54
150MM BLIND FLANGE CAP	55
ABANDON WATER MAIN IN PLACE	55
ABANDON WATER MAIN AND REMOVE	55
ABANDON VALVE ON EXISTING 150MM WATER MAIN	55
REMOVE AND SALVAGE BUTTERFLY VALVE	55
WATER MAIN REMOVAL OF THE DIAMETER SPECIFIED	56
SANITARY MANHOLES WITH BOLT-DOWN WATER-TIGHT FRAME & COVER	56
BACKFILLING STORM SEWER UNDER ROADWAY	57
CLEANING EXISTING DRAINAGE STRUCTURES	57
CULVERT TO BE CLEANED	58
DRAINAGE STRUCTURES, TYPE 2 SPECIAL WITH TWO TYPE 22 FRAME AND GRA	TES 58
FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)	58
MANHOLES, SANITARY WITH TYPE 1 FRAME, CLOSED LID	59
PROPOSED STORM SEWER CONNECTION TO EXISTING MANHOLE	59
STORM SEWERS, RUBBER GASKET	60
STORM SEWER, DUCTILE IRON PIPE, TYPE 1	60
STORM SEWER ADJACENT TO OR CROSSING WATER MAIN	61

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

TEMPORARY STORM SEWER PLUGS	61
ADJUSTING WATER MAIN	61
STRUCTURAL	62
OVERHEAD SIGN STRUCTURE-SPAN, ANCHOR ROD ASSEMBLY	63
PIPE UNDERDRAINS FOR STRUCTURES	63
RUSTICATION FINISH FOR RETAINING WALLS	64
TEMPORARY SOIL RETENTION SYSTEM (REMAIN IN PLACE)	65
TEMPORARY SHEET PILING	66
TEMPORARY SOIL RETENTION SYSTEM	67
EROSION CONTROL	68
EROSION AND SEDIMENT CONTROL MANAGER	68
EROSION AND SEDIMENT CONTROL CALL OUT	69
EROSION AND SEDIMENT CONTROL SCHEDULE	70
SURFACE ROUGHENING	71
EROSION AND SEDIMENT CONTROLS	71
ARTICULATED BLOCK MATS	78
GEOTEXTILE FABRIC MATERIALS	79
TEMPORARY DITCH CHECKS	81
ELECTRICAL	81
COILABLE NON-METALLIC CONDUIT	82
RACEWAYS EMBEDDED IN STRUCTURE	83
STAINLESS STEEL JUNCTION BOX	84
STAINLESS STEEL JUNCTION BOX TYPE "J"	84
BUILDING REMOVAL - CASE II (NON-FRIABLE ASBESTOS ABATEMENT) (BDE)	84
ADJUSTING FRAMES AND GRATES (BDE)	103
BITUMINOUS BASE COURSE / WIDENING SUPERPAVE	105
BITUMINOUS CONCRETE SURFACE COURSE (BDE)	110
BUTT JOINTS (BDE)	110
COARSE AGGREGATE FOR TRENCH BACKFILL, BACKFILL AND BEDDING (BDE)	
CONCRETE ADMIXTURES (BDE)	
CONTROLLED AGGREGATE MIXING SYSTEM (BDE)	
CURB RAMPS FOR SIDEWALK (BDE)	
CURING AND PROTECTION OF CONCRETE CONSTRUCTION (BDE)	
DISADVANTAGED BUSINESS ENTERPRISE PARTICIPATION (BDE)	
EROSION AND SEDIMENT CONTROL DEFICIENCY DEDUCTION (BDE)	
FLAGGER VESTS (RDE)	138

FAI-80/94 Rte.:

Local Road Reconstruction 2001-167R Desc:

Sec.: Co.: Cook

FREEZE-THAW RATING (BDE)	139
FURNISHED EXCAVATION (BDE)	139
HAND VIBRATOR (BDE)	140
INLET FILTERS (BDE)	140
PARTIAL PAYMENTS (BDE)	142
PAVEMENT THICKNESS DETERMINATION FOR PAYMENT (BDE)	143
PAYMENTS TO SUBCONTRACTORS (BDE)	149
PORTABLE CHANGEABLE MESSAGE SIGNS (BDE)	150
PORTLAND CEMENT CONCRETE (BDE)	151
PRECAST CONCRETE (BDE)	152
PREFORMED RECYCLED RUBBER JOINT FILLER (BDE)	153
RAP FOR USE IN BITUMINOUS CONCRETE MIXTURES (BDE)	153
STONE FOR EROSION PROTECTION, SEDIMENT CONTROL, AND ROCKFILL (BDE)	156
SUBGRADE PREPARATION (BDE)	158
SUPERPAVE BITUMINOUS CONCRETE MIXTURES (BDE)	159
TEMPORARY CONCRETE BARRIER (BDE)	165
TRAFFIC CONTROL DEFICIENCY DEDUCTION (BDE)	167
TRAINING SPECIAL PROVISIONS	168
TRUCK BED RELEASE AGENT (BDE)	170
WEIGHT CONTROL DEFICIENCY DEDUCTION	170
WORK ZONE PUBLIC INFORMATION SIGNS (BDE)	172
WORK ZONE SPEED LIMIT SIGNS (BDE)	172
WORK ZONE TRAFFIC CONTROL (BDE)	173
WORK ZONE TRAFFIC CONTROL DEVICES (BDE)	174

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

GENERAL INFORMATION

State of Illinois Special Provisions

The following Special Provisions supplement the "Standard Specifications for Road and Bridge Construction", Adopted January 1, 2002, the latest edition of the "Manual on Uniform Traffic Control Devices for Streets and Highways", and the "Manual of Test Procedures for Materials", in effect on the date of invitation for bids; and the "Supplemental Specifications and Recurring Special Provisions" indicated on the Check Sheet included herein which apply to and govern the construction of FAI-80/94: Local Road Reconstruction, Section: 2001-167R, Project: NHI-080-5(059)162, in Cook County, and in case of conflict with any part, or parts, of said specifications, the said Special Provisions shall take precedence and shall govern.

FAI-80/94, LOCAL ROAD RECONSTRUCTION

SECTION: 2001-167R

PROJECT: NHI-080-5(059)162

COOK COUNTY

CONTRACT NO.: 62350

LOCATION OF PROJECT

The project includes work on Bernice Road and 175th Street in The Village of Lansing. Work begins on Bernice Avenue at a point approximately 300 meters east of Illinois Route 83 (north of the centerline of FAI-80/94) and extends in an easterly direction for a distance of 1.37 kilometers to a point 22.8 meters west of Burnham Avenue then resumes at a point 26.0 meters east of Burnham Avenue and continues for a distance of 0.72 kilometers to the end of the project 150 meters west of Wentworth Avenue. The Project begins on 175th Street, approximately 200 meters east of Illinois Route 83 (south of the centerline of FAI-80/94) and extends in an easterly direction for a distance of 1.46 meters to a point 24.1 meters west of Burnham Avenue then resumes at a point 113 meters east of Burnham Avenue and continues for a distance of 0.6 kilometers to the end of the project on Bernadine Avenue approximately 150 meters west of Wentworth Avenue.

The entire project is located in the Village of Lansing in the County of Cook.

DESCRIPTION OF PROJECT

The project consists of reconstruction of Bernice Avenue pavement for the entire net length and reconstruction of 175th Street for the segment west of Burnham Avenue and overlay of 175th Street with partial curb and gutter replacement for the segment east of Burnham Avenue. Retaining Walls for future widening of I80/94 will be constructed as part of this project. The work to be performed under this contract includes bituminous pavement reconstruction, bituminous overlay, curb and gutter, storm sewer, erosion control, temporary sheet piling and soil retention system, special waste handling building removal, box culvert, concrete-cantilever retaining walls, landscaping and all incidental and collateral work necessary to complete the project as shown on the plans and described herein.

Approximately 1450 meters of 915 mm transmission water main will be installed along the I80/294 Frontage Roads. On the south of I-80 from Torrence Avenue to Railroad Avenue,

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

across I-80 at Railroad Avenue and on the north from Railroad Avenue to Wentworth Avenue. The water main is the only supply line for the City of Chicago Heights. The new water main will be constructed from prestressed concrete pressure pipe. The abandoned local water mains on Lansing streets will be cut and capped and removed. Village of Lansing ductile iron water mains at Railroad Avenue and at Chicago Avenue will be relocated and connected.

COMPLETION DATE PLUS GUARANTEED WORKING DAYS

The Contractor shall complete all contract items and safely open Bernice Ave. and 175th St. to traffic by 11:59PM, September 2, 2005, except as specified herein.

This contract includes an interim completion date. The Contractor shall complete retaining wall (016-W847) along with all associated work between the wall and the existing mainline I-80/94 shoulders, for the safe reopening of the eastbound entrance ramp at the new Torrence Avenue Interchange, by 11:59 pm October 24, 2004.

This contract includes a second interim completion date. The Contractor shall complete retaining wall (016-W848) along with all associated work between the wall and the existing mainline I-80/94 shoulders for the safe reopening of the westbound exit ramp at the new Torrence Avenue Interchange, by 11:59 pm November 14, 2004.

This contract includes a third interim completion date. The Contractor shall complete retaining wall (016-W850) from Station 6+159 to Station 6+350 (I80/94) along with all associated work between the wall and the existing mainline I-80/94 shoulders, for the safe realignment of traffic onto the new CD Road Eastbound, by 11:59 pm April 17, 2005.

This contract includes a fourth interim completion date. The Contractor shall complete retaining wall (016-W849) along with all associated work between the wall and the existing mainline I-80/94 shoulders, for the safe realignment of I-80/94 Westbound Traffic, by 11:59 pm June 26, 2005.

The Contractor will be allowed to complete all clean-up work, punch list items, and landscaping within 20 guaranteed working days after the completion date for opening the roadway to traffic. Under extenuating circumstances, the Engineer may direct that certain items of work, not affecting the safe opening of the roadway to traffic, may be completed within the guaranteed working days allowed for clean-up work and punch list items. Temporary lane closures for this work may be allowed during the allowable hours as provided in the Special Provision "Keeping the Expressway Open to Traffic" at the discretion of the Engineer.

Article 108.09 of the Standard Specifications or the Special Provision for Failure to Complete the Work on Time, if included in this contract, shall apply to the completion date, interim completion dates, and the number of guaranteed working days.

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

COORDINATION WITH ADJACENT AND/OR OVERLAPPING CONTRACTS

This contract abuts and/or overlaps with other concurrent and future contracts as listed below. Each contract includes work items requiring close coordination between the various Contractors regarding the sequence and timing for execution of work items. This contract also includes critical work items that affect the future staging of traffic and the completion dates of other contracts. These critical items along with their completion dates are listed after each contract.

Contract #62112, Wentworth Ave. over I-80/94
 Critical Items affecting the above contract:
 None

2. Contract #62109, Torrence Ave. over I-80/94 Bridge Reconstruction and Interchange improvement Project.

Critical Items affecting the above contract:

- A. Retaining Wall (016-W847) along the proposed CD Road EB from Sta. 190+715 to Sta. 191+301 and all associated work between the wall and the existing south edge of shoulder of I-80/94, such as the box culvert and the embankment, shall be completed by October 24, 2004.
- B. Retaining Wall (016-W848) along proposed I-94 WB from Sta. 32+840 to Sta. 33+366 and all associated work between the wall and the existing north edge of shoulder of I-80/94, such as the box culvert and the embankment, shall be completed by November 14, 2004.
- 3. Contract for I-80/94 from west of Torrence Ave. to Burnham Ave. Mainline paving and bridge reconstruction during 2005.

Critical Items affecting the above contract:

- A. Retaining Wall (016-W849) along proposed I-94 WB from Sta. 33+563 to Sta. 34+106 and all associated work between the wall and the existing north edge of shoulder of I-80/94 shall be completed by June 26, 2005.
- B. Retaining Wall (016-W850) along the proposed CD Road EB and I-80/94 EB from Sta. 6+159 to Sta. 6+350 (I-80/94) and all associated work between the wall and the existing south edge of shoulder of I-80/94 shall be completed by April 17, 2005.
- C. The south half section of the proposed 175th Street roadway and the proposed north half section of the proposed Bernice Avenue roadway between approximately Sta. 6+000 to and Sta. 6+150 shall be completed and safely opened to one-way traffic, and the existing roadway connections between 175th Street and Bernice Avenue beneath the existing I-80/94 bridge at Sta. 6+075 shall be closed to traffic by December 31, 2004.
- 4. Contract for I-80/94 from Burnham Ave. to Calumet Ave. (US 41). Mainline paving and bridge reconstruction during 2005.

Critical Items affecting the above contract:

A. Retaining Walls (016-W874) and (016-W854) along the north side of I-80/94 and all associated work between the wall and the existing north edge of shoulder shall be completed by July 15, 2005.

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

B. Accident Investigation Site along the I-80/94 eastbound right shoulder, west of Wentworth Avenue, shall be completed by November 24, 2004.

- 5. Contract #62664 Highway lighting and surveillance Critical Items affecting the above contract:
 - A. The embankment and grading between retaining wall (016-W847) and proposed 175th St. shall be completed by December 2004.
 - B. The embankment and grading between retaining wall (016-W848) and proposed Bernice Ave. shall be completed by December 2004.
 - C. The embankment and grading between retaining wall (016-W849) and proposed Bernice Ave. shall be completed by July 2005.
 - D. The embankment and grading between retaining wall (016-W850) and proposed 175th St. from Sta. 6+159 (CD Road EB Sta. 191+379) to Sta. 6+350 (I-80/94) shall be completed by May 2005.
 - E. The East end of retaining wall (016-W873) and retaining wall (016-W853) and the Accident Investigation site by November 17, 2004
 - F. The embankment and grading between retaining walls (016-W874) & (016-W854) and proposed 175th St. shall be completed by August 2005.

Add the following paragraph to the beginning of Article 105.08. "The Contractor shall identify all such work items (including the critical items listed above) at the beginning of the contract and coordinate the sequence and timing for their execution and completion with the other Contractors through the Engineer. All of these work items shall be identified as separate line items in the Contractor's proposed Construction Progress Schedule. Additional compensation or the extension of contract time will not be allowed for the progress of the work items affected by the lack of such coordination by the Contractor".

MAINTENANCE OF ROADWAYS

Effective: September 30, 1985 Revised: November 1, 1996

Beginning on the date that work begins on this project, the Contractor shall assume responsibility for normal maintenance of all existing roadways within the limits of the improvement. This normal maintenance shall include all repair work deemed necessary by the Engineer, but shall not include snow removal operations. Traffic control and protection for maintenance of roadways will be provided by the Contractor as required by the Engineer.

If items of work have not been provided in the contract, or otherwise specified for payment, such items, including the accompanying traffic control and protection required by the Engineer, will be paid for in accordance with Article 109.04 of the Standard Specifications.

STATUS OF UTILITIES TO BE ADJUSTED

Effective: January 30, 1987 Revised: July 1, 1994

Utility companies involved in this project have provided the following estimated dates:

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

Name of Utility	<u>Type</u>	<u>Location</u>	Estimated Dates for Start and Completion of Relocation or Adjustments
Village of Lansing (1)	Water Main	Bernice Avenue and 175 th Street	Prior to Construction
Village of Chicago Heights (2)	Water Main	Bernice Avenue and 175 th Street	Prior to Construction
ComEd (3)	Underground Electric and Power Poles	Bernice Avenue and 175 th Street	Prior to Construction
Telephone (4)	Telephone	Bernice Avenue and 175 th Street	Prior to Construction
Gas Nicor (5)	Underground Gas	Bernice Avenue and 175 th Street	Prior to Construction
Village of Lansing (6)	Combined Sewer	175 th Street	Prior to Construction

(1) Village of Lansing – work shall consist of the following:

- a. 175th Street
 - 1) Relocate existing water main at 319+360 where it turns north, to extend west to 319+340 and then north under the Railroad Avenue proposed bridge to Bernice Avenue.
 - 2) Adjust existing water main at William Street where it crosses the proposed retaining wall and storm sewer. Relocate valve vault.
- b. Bernice Avenue
 - 1) Relocate existing water main at approx. Sta. 309+335, where it currently turns south, to extend west to approx 309+293 in order to connect to relocated portion under Railroad Avenue above.
 - 2) Adjust existing 400 mm water main to avoid storm sewer at Station 310+375.
 - 3) Relocate existing 400 mm water main in two locations to avoid catch basins from 310+600 to 310+675.
 - 4) Relocate existing 600 mm water main north to south across expressway.
- (2) City of Chicago Heights work shall consist of the following:
 - a. 175th Street
 - 1) Relocate an existing 900 mm water main to approximately 1.2 m north of the south ROW line, from approx. Sta. 318+610 to 318+900.
 - 2) Relocate an existing 900 mm water main at approx. Sta. 319+325 to turn north under the Railroad Avenue proposed bridge and extend to Bernice Avenue.
 - b. Bernice Avenue
 - 1) Relocate existing 900 mm water main to run under proposed roadway pavement under centerline and west bound lanes from approx. Sta. 309+600 to 310+075.
 - 2) Relocate existing 900 mm water main to run under proposed roadway pavement from approx. Sta. 310+075 to Sta. 310+575.

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

(3) ComEd - work shall consist of the following:

a. 175th Street

- 1) Adjust electric cable at Chicago Avenue (approx. 319+600) to avoid retaining wall footing.
- 2) Relocation of approximately 10 power poles to 0.3 meters north of south R.O.W line, 318+784 to 319+329 (at Railroad Avenue).
- 3) Relocation to the south of an underground electric cable near the entrance to the Tri- State Nursing and Rehabilitation Center, from approximately Sta. 318+784 to Sta. 318+806.
- 4) Relocate approximately 6 poles and attached cable, Burnham Avenue to Wentworth Avenue.
- 5) Adjust electric cable between William and Bernadine (approx. 310+655 until cable turns south) to avoid retaining wall footings.

b. Bernice Avenue

- 1) Adjust electric cable at Chicago Avenue (approx. 309+600) to avoid retaining wall footing.
- 2) Relocate approximately 8 power poles to 0.3 meters south of the north R.O.W line, Railroad Avenue to Burnham Avenue.
- 3) Relocate approximately 4 power poles, Burnham Avenue to Wentworth Avenue.
- 4) Adjust electric cable at Bernadine (approx. 310+655) to avoid retaining wall footing.
- (4) Telephone work shall consist of the following:
 - a. 175th Street
 - 1) Relocate telephone cable to 0.6 meters north of south ROW line from approximate stations 318+780 to 319+00, including splice box.
 - 2) Relocate approximately 3 poles and attached cable, Burnham Avenue to Wentworth Avenue.

(5) Nicor – work shall consist of the following:

- a. 175th Street
 - 1) Relocate gas main to 0.9 meters north of the south ROW line from approximate stations 318+550 to 319+00.
- b. Bernice Avenue
 - 1) Adjust gas main to avoid storm sewer laterals from Chicago Avenue to Lorenz Avenue.
 - 2) Adjust gas main to avoid storm sewer laterals, 50 meter east of Railroad Avenue (Approx Sta. 309+380).
 - 3) Abandon existing gas main running along existing roadway from approximate stations 308+600 to 308+787.
 - 4) Adjust gas main to avoid storm sewer laterals from Henry Street to Wentworth Avenue.
- (6) Village of Lansing work shall consist of the following:
 - a. 175th Street
 - 1) Relocate existing combined sewer located north of Tri-State Nursing and Rehabilitation Center, from approximately Stations 318+610 to 318+675, to avoid proposed CD road and retaining wall foundation.
 - 2) Extend combined sewer at Station 318+683 to south of proposed 175th Street Roadway, and adjust service connections accordingly.
 - 3) Extend combined sewer at Station 318+785 to south of proposed retaining wall, and adjust service connections accordingly.

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

4) Relocate existing sanitary sewer to avoid high mast tower foundation (approx. 320+145).

b. Bernice Avenue

1) Realign and modify combined sewer at Station 308+784 to eliminate manholes under expressway.

The above represents the best information available to the Department and is included for the convenience of the bidder. The applicable portions of Articles 105.07 and 107.31 of the Standard Specifications shall apply.

Rte.:

FAI-80/94

Desc:

Local Road Reconstruction

Sec.: Co.: 2001-167R Cook

STORM WATER POLLUTION PLAN FORM

(P)	Illinois Department of Transportation
	or manaportation

Storm Water Pollution Prevention Plan

Route	FAI 80/94 and IL 394	Marked	I-80/94, Bishop Ford Expressway and Kingery Expressway
Section	See individual contract	Project No).
County_	Cook, IL and Lake, IN		
This plan has been prepared to comply with the provisions of the NPDES Permit Number ILR10, issued by the Illinois Environmental Protection Agency for storm water discharges from Construction Site Activities.			
supervision evaluated those per knowledge	under penalty of law that this document and all attention in accordance with a system designed to assure the information submitted. Based on my inquiry of the transportation of the transport of the transportation of the transport of transport of the transport of the transport of the transport of transport of the transport of the transport of the transport of transport of the transport of the transport of the transport of transport of the transport of the transport of the transport of transport of the transport of the transport of the transport of transport of the transport of t	e that quali he person on the inform that there	ified personnel properly gathered and or persons who manage the system, or mation submitted is, to the best of my e are significant penalties for submitting

1 Site Description

 The following is a description of the construction activity which is the subject of this plan (use additional pages, as necessary):

The project is located at I-80/94 from I-294 (Tri- State Tollway) to US 41.

Construction Descriptions

Interstate 80 will be reconstructed from approximately 1000 m west of IL 394 to US 41. In addition, Interstate 94 will be reconstructed from 159th Street to Interstate 80 and IL 394 will be reconstructed from its terminus at Interstate 94 to 1600 m south of Thornton-Lansing Road. The project also includes the reconstruction of Thornton-Lansing Road for approximately 350 m east and west of IL 394; Dorchester Avenue from Thornton-Lansing Road to approximately 700 m south of Thornton-Lansing Road; IL 83 (Torrence Avenue) from 335 m north of I-80 to 558 m south of I-80; 176th Place from 217 m west of IL 83 to IL 83; 170th Street from 290 m west of I-94 to 295 m east of I-94; Van Dam Road from 170th Street to 110 m north of 170th Street and from 384 m south of 159th Street to 183 m south of 159th Street; Bernice Avenue from IL 83 to Wentworth Avenue, net length 1918 m; 175th Street from IL 83 to Wentworth Avenue, net length 1988 m; Wentworth Avenue from 400 m south of I-80 to 630 m north of I-80; and portions of 175th Street between Paxton Avenue and IL 83, net length 333 m.

The proposed improvements will consist of four through lanes in each direction along Interstate 80/94 within the reconstruction limits. Auxiliary lanes are also utilized between all of the interchanges within the project limits. In addition, C-D roads have been incorporated for both the I-80 and I-94 traffic movements. The IL 83 interchange will be reconfigured from a cloverleaf to a Single Point Urban Interchange (SPUI). The I-80 and I-

Page 1 of 12

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

94 interchange will be reconfigured as well, with the east to north and west to south movements at the I-80/94 IL 394 loop ramps being removed and replaced with semi directional ramps (flyovers).

All mainline structures and overhead structures (IL 83, Wentworth Avenue, 170th Street and Thornton-Lansing Road) will be reconstructed. Some mainline structures will be realigned to accommodate the interchange reconfigurations. In addition, several retaining walls will be constructed along the mainline roadways and cross streets.

All interstate, including IL 394, and ramp pavements will be replaced with either continuously reinforced concrete pavement or jointed concrete pavement. IL 83, 170th Street, Burnham Avenue, and Wentworth Avenue pavements will be replaced with jointed concrete pavement. Existing pavements on 175th Street, Bernice Avenue, Thornton-Lansing, Dorchester Avenue, Van Dam Road and 176th Place will be replaced with bituminous pavements.

Drainage inlets will be placed along the median of the Interstates and IL 83 and storm water runoff will be conveyed through proposed sewers to outlets at existing locations per the Location Drainage Plan. New detention areas will be provided in the location of the existing loop ramps at IL 83. Existing drainage culverts that cross I-80 will be replaced. Pump Stations 1 and 6 will be removed at the completion of the improvements. Roadside ditches along I-94, IL 394 and ramps will be improved.

Other work includes construction of a noise abatement walls along both sides of I-80 from IL 83 to US 41 (with omissions) and along I-94 from Thorn Creek to 159th Street, installation of high mast tower lighting, sign structure installations, pavement striping restoration and all necessary and related road work.

Environmental Descriptions

West of the I-94/IL 394 interchange are sensitive ecological areas and commitments have been made to protect them. These areas include the Thorn Creek Forest Preserve, Volbrecht Woods, Wampum Lake Seepage INAI sites, and sand flatwood communities. All required protection devices, activities, and training must be completed before any work may begin.

Entry is not permitted under any circumstances in these forest preserve areas. This includes all construction traffic, foot and motorized, to enter this forest preserve. Perimeter fencing and no-intrusion signage will be erected. These protection devices are listed in the Erosion Control Plan.

The required plant species sensitivity training session is further explained in the Special Provisions.

Existing ground water levels must be maintained to protect existing pharmacological communities. New drainage swales are to be dug so they do not intersect with ground water levels. Rubber gasket sealed storm sewers and anti-seep collars are among the devices utilized.

Compaction must also be minimized in this western location outside of the embankment area. The Contractor may use low ground weight vehicles or matting to reduce rutting. The Contractor will also be responsible to rework the topsoil to remove any unnatural compaction that occurred.

IDOT will work with the FPDCC to develop a maintenance and restoration plan. Reseeding west of this interchange will be done with native prairie mixes that supplement the adjacent areas and any tree replacement within the preserve will be coordinated with the FPDCC. More specific information is included in the plans.

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

b. The following is a description of the intended sequence of major activities which will disturb soils for major portions of the construction site, such as grubbing, excavation and grading (use additional pages, as necessary):

The project has been scheduled to be built in three phases (first phase advanced work, second phase mainline first year, and second phase mainline second year). During each phase multiple contracts will be awarded. Each of these contracts have multiple stages.

Phase I Contracts: 62103, 62109, 62112, 62348, 62350, 62351, 62352, 62353, 62422, 62518

Phase I-Stages 1 and 2

- Resurface of IL 394 and replacement of shoulders.
- Placement of new embankment for I-94 EB from IL 394 to merge with I-80.
- Construction of new pavement on new alignment for I-94 EB from IL 394 to merge with I-80
- Construction of new ramp bridge from I-80/294 EB to IL 394 NB and widening of I-294 to accommodate the ramp exit.
- Construction of new IL 394 NB bridge over Thorn Creek.
- Construction of new Thornton-Lansing Road bridge over IL 394 and associated roadway work on Dorchester Avenue.
- Construction of new 170th Street bridge over I-94 and associated roadway work on Prince Drive and Van Dam Road.
- Reconstruction of the northbound lanes of IL 83 (Torrence Avenue), new ramps on east side of I-80/IL 83 interchange and temporary ramp pavement at I-80.
- Begin construction of both Bernice Avenue and 175th Street from IL 83 to Wentworth Avenue and portions of 175th Street between Paxton Avenue IL 83. Construction includes retaining walls and street relocation.
- Begin construction of Wentworth Avenue.

Phase I-Stage 3

- Finish construction at locations discussed in Phase I-Stages 1 and 2.
- Switch traffic on IL 83 to northbound lanes and construct southbound lanes and new drainage system.
- Construct ramps on west side of I-80/IL 83 interchange.
- · Complete all work necessary for start of Phase II.

Phase II Contracts: 62104, 62107, 62109, 62110, 62113, 62350 Phase II-Stage 1

- Placement of embankment and pavement for widening of I-80/294 from Thorn Creek to the bridge over the Grand Trunk Railroad.
- Placement of embankment and pavement for IL 394 NB.
- Construction of IL 394 Northbound bridge over I-80.
- Placement of embankment and pavement for I-94 Westbound.
- Construction of bridge for I-94 westbound over Thorn Creek.
- Placement of embankment and pavement for a small segment of IL 394 southbound over Grand Trunk Railroad.
- Construction of the outer lanes of the bridge IL 394 southbound over Canadian National Railroad.
- Placement of embankment and pavement for Ramp H, IL 394 northbound to I-80 westbound.
- Placement of embankment and pavement for connector ramp from IL 394 northbound to I-80 east bound.
- Construction of collector-distributor roadway west of IL 83.

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

Phase II-Stages 2 thru 6

• Continue construction at locations discussed in Phase II-Stage 1 with sub-stages used to complete the work necessary for the start of Phase III.

Phase III Contracts: 62105, 62108, 62111, 62114 Phase III-Stage 1

- Placement of embankment and pavement for I-94 EB.
- Placement of embankment and pavement for IL 394 SB.
- Construction of IL 394 Southbound bridge over I-80.
- Placement of embankment and pavement for I-94 Eastbound.
- Construction of bridge for I-94 Eastbound over Thorn Creek.
- Construction of the remaining portion of the bridge IL 394 southbound over Canadian National Railroad.
- Placement of embankment and pavement for Ramp F, IL 394 southbound to I-80 westbound.
- Construction of I-80 eastbound lanes from Burnham Avenue to Illinois State Line.
- Construction of I-80 westbound lanes from I-294 to approximately the exit to I-94 WB.

Phase III-Stage 2

- Begin reconstruction of Burnham Road from Bernice Road to south of I-80/94.
- Construction of I-80 westbound lanes from approximately the exit to I-94 WB to US 41.
- Construction of I-80 Eastbound lanes near Railroad Avenue.
- Continue construction at locations discussed in Phase III-Stage 1 with sub-stages used to complete the work.

Post Mainline Construction

- Final landscaping.
- · Bridge painting.

C.	The total area of the construction site is estimated to be	371	acres (150 HA).
	The total area of the site that it is estimated will be disturb acres 371 (150 HA): Phase I, 134 ac (54 ha); Phase II, 14	,	•

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

d. The estimated runoff coefficients of the various areas of the site after construction activities are completed are contained in the project drainage study, which is hereby incorporated by reference in this plan. Information describing the soils at the site is contained either in the Soils Report for the project, which is hereby incorporated by reference, or in an attachment to this plan.

- e. The design/project report, hydraulic report, or plan documents, hereby incorporated by reference, contain site map(s) indicating drainage patterns and approximate slopes anticipated after major grading activities, areas of major soil disturbance, the location of major structural and nonstructural controls identified in the plan, the location of areas where stabilization practices are expected to occur, surface waters (including wetlands), and locations where storm water is discharged to a surface water.
- f. The names of receiving water(s) and areal extent of wetland acreage at the site are in the design/project report or plan documents, which are incorporated by reference as a part of this plan.

Thorn creek will accept storm water runoff on the western half of the project, and the Little Calumet will accept run off on the eastern half of the project.

g. During major storm events, some locations within the work zone may become saturated. These saturated areas may be expected near Thorn Creek, I-80 over the Canadian National Railroad eastern abatement, Ramp F, Ramp E, I-94 WB near Thorn Creek, and the areas near culverts. In addition, the project impacts several wetlands and these areas would also be expected to be saturated as a result of a major storm event. Care has been taken to prepare the Erosion Control Plan to limit erosion and the ponding of water in the work zone.

2. Controls

This section of the plan addresses the various controls that will be implemented for each of the major construction activities described in 1.b. above. For each measure discussed, the contractor that will be responsible for its implementation is indicated. Each such contractor has signed the required certification on forms which are attached to, and a part of, this plan:

a. Erosion and Sediment Controls

- (i) Stabilization Practices. Provided below is a description of interim and permanent stabilization practices, including site-specific scheduling of the implementation of the practices. Site plans will ensure that existing vegetation is preserved where attainable and disturbed portions of the site will be stabilized. Stabilization practices may include: temporary seeding, permanent seeding, mulching, geotextiles, sod stabilization, vegetative buffer strips, protection of trees, preservation of mature vegetation, and other appropriate measures. Except as provided in 2.a.(i).(A) and 2.b., stabilization measures shall be initiated as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, but in no case more than 14 days after the construction activity in that portion of the site has temporarily or permanently ceased on all disturbed portions of the site where construction activity will not occur for a period of 21 or more calendar days.
 - (A) Where the initiation of stabilization measures by the 14th day after construction activity temporarily or permanently ceases is precluded by snow cover, stabilization measures shall be initiated as soon as practicable thereafter.

Description of Stabilization Practices (use additional pages, as necessary):

- Temporary Erosion Control Seeding shall be applied in accordance with the Special Provision. Seed mixture will depend on the time of year it is applied. Oats will be applied from January 1 to July 31 and Hard Red Winter Wheat from August 1 to December 31.
- 2. Short Term Seeding Seeding Class 2A shall be used to protect bare earth from more than just one or two summer-winter cycles. Due to the length and complexity of this

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

project, it is necessary that short term, final graded slopes be short term seeded as directed by the Engineer.

- 3. Stone Riprap Class A4 stone riprap with filter fabric will be used as protection at the discharge end of most storm sewer and culvert end sections to prevent scouring at the end of pipes and to prevent downstream erosion.
- 4. Temporary Tree Protection Shall consist of items "temporary fencing" and "tree trunk protection" as directed by the engineer and in accordance with Article 201.05 of the Illinois Department of Transportation's Standard Specifications for Road and Bridge Construction.
- 5. Permanent Stabilization All areas disturbed by construction will be stabilized as soon as permitted with permanent seeding following the finished grading, but always within seven days with Temporary Erosion Control Seeding. Erosion Blankets will be installed over fill slopes, which have been brought to final grade and have been seeded to protect the slopes from rill and gully erosion and allow seeds to germinate properly.
- 6. Erosion Control Blankets and Mulching Erosion control blankets will be installed over fill slopes and in high velocity areas that have been brought to final grade and seeded to protect slopes from erosion and allow seeds to germinate. Mulch will be applied in relatively flat areas to prevent further erosion.
- (ii) Structural Practices. Provided below is a description of structural practices that will be implemented, to the degree attainable, to divert flows from exposed soils, store flows or otherwise limit runoff and the discharge of pollutants from exposed areas of the site. Such practices may include silt fences, earth dikes, drainage swales, sediment traps, check dams, subsurface drains, pipe slope drains, level spreaders, storm drain inlet protection, rock outlet protection, reinforced soil retaining systems, gabions and temporary or permanent sediment basins. The installation of these devices may be subject to Section 404 of the Clean Water Act.

Description of Structural Practices (use additional pages, as necessary):

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

1. Sediment Control, Stabilized Construction Access – Coarse aggregate overlaying a geotextile fabric will be placed in locations necessary for contractor access. The aggregate surface of the access points will capture soil debris, reducing the amount of soil deposits placed on to the roadway by vehicles leaving the work zones.

- 2. Inlet Filters Inlet and Pipe Protection will be provided for storm sewers. These filters will be placed in every inlet, catch basis or manhole with an open lid, which will drain water during at least a 10-year storm event. The Erosion Control Plan will identify the structures requiring Inlet filters.
- 3. Sediment Control, Silt Fence— A silt fence will be placed adjacent to the areas of construction to intercept waterborne silt and prevent it from leaving the site. These areas are marked on the erosion control plans in each contract.
- 4. Sediment Control, Temporary Ditch Checks Rolled excelsior ditch checks will be placed in swales at the rate of one for every 0.3 meters in vertical drop, or as directed by the Engineer, in order to prevent downstream erosion.
- 5. Sediment Control, Temporary Stream Crossing -- Coarse aggregate overlaying a geotextile fabric will be placed in locations necessary for contractor access over water channels. The aggregate surface of the crossing will reduce the amount of soil disturbance in the streams.
- 6. Sediment Control, Temporary Pipe Slope Drain This item consists of a pipe with flared end sections, placed daily, along with anchor devices in conjunction with temporary berms that direct runoff down an unstabilized slope.
- 7. Sediment Control, Dewatering Basins will be provided at wherever the contractor is removing and discharging water from excavated areas and the water is not being routed through a sediment trap or basin.
- 8. Stone riprap will be provided at several storm and culvert outlets as a measure for erosion and sediment control where needed during and after the project.
- 9. Bridges will be designed to reduce the potential for scouring.
- 10. Underdrains will be used to minimize potential erosion caused by surface water flows by reducing the subsurface water which can cause failed pavements, unstable shoulders and other disturbed areas.
- 11. Covers will be placed on open ends of pipes in trenches.

The structural practices indicated above may not be used in every contract. The Erosion Control Plans included in every contract will indicate which structural practices are required for that contract.

b. Storm Water Management

Provided below is a description of measures that will be installed during the construction process to control pollutants in storm water discharges that will occur after construction operations have been completed. The installation of these devices may be subject to Section 404 of the Clean Water Act.

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

(i) Such practices may include: storm water detention structures (including wet ponds); storm water retention structures; flow attenuation by use of open vegetated swales and natural depressions; infiltration of runoff on site; and sequential systems (which combine several practices). The practices selected for implementation were determined on the basis of the technical guidance in Section 10-300 (Design Considerations) in Chapter 10 (Erosion and Sedimentation Control) of the Illinois Department of Transportation Drainage Manual. If practices other than those discussed in Section 10-300 are selected for implementation or if practices are applied to situations different from those covered in Section 10-300, the technical basis for such decisions will be explained below.

- (ii) Velocity dissipation devices will be placed at discharge locations and along the length of any outfall channel as necessary to provide a non-erosive velocity flow from the structure to a water course so that the natural physical and biological characteristics and functions are maintained and protected (e.g., maintenance of hydrologic conditions, such as the hydroperiod and hydrodynamics present prior to the initiation of construction activities).
- (iii) The Department proposes to remove vegetation within the project limits as necessary for construction. The Department proposes to revegetate these areas with salt tolerant turf grass near the roadway and the majority of ground cover consisting of native prairie grasses and wildflowers. Areas that require tree removal will be reforested.

Approximately 1,772 trees exist on Forest Preserve property that are proposed for removal. The Forest Preserve accounted for tree trunk cross sectional area, species, location, and condition to evaluate these trees. The Department has agreed to replace all 1,772 trees on a 1 to 1 basis. The replacement trees will only be worth 57% of the original trees, requiring the Department to reimburse the FPDCC for the remaining 43% to fulfill the Department's mitigation responsibility. During this process, 4.0 acres of Forest Preserve property will be exposed, with the Department reforesting the 4.0 acres according to our planting policies, leaving the FPDCC the potential to restore 3.0 more acres.

(iv) Articulated Block Mats are being utilized for this project to control erosion underneath bridge decks adjacent to streams and wet areas. These articulated block mats will be installed early in the project, providing construction crews with stabilized work pads, and will be left in place, giving bridge inspectors and highway maintainers suitable, and non-damaging means to perform necessary maintenance.

Note:

- Ponded water areas with wetland type vegetation will be created for this project for water quality only, and not detention or habitat. Only the first flush of runoff will be detained.
- 2. It is not anticipated that any channels will be relocated as part of this project, however, if a need arises, a riffle pool will be used to accommodate the relocation.
- 3. When possible, the flow in detention basins will be offset, not linear.
- 4. Care will be taken to only use fertilizer nutrients on final seeding items when nutrients are incorporated into the soil during seedbed preparation.

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

Description of Storm Water Management Controls (use additional pages, as necessary):

1. Detention ponds on the southwest and northwest quadrants of the IL 83 and I-94/CD road interchange will provide additional storm water detention.

- 2. Proposed oversized pipe at Outlet 22 will provide additional storm water detention.
- 3. Lengths of ditches will be maximized in order to aid in pollutant filtering along with the over sizing of storm sewers and ditches.
- 4. Pump Stations #1 and #6 will be removed as a result of this project. The removal of these pump stations will reduce the velocity of release water at the discharge points. The reduction in velocity of the water will reduce the potential for erosion.
- 5. Permanent measures for storm water management controls will be placed as soon as possible during construction.
 - a. All ditches will be vegetated, where feasible, which will provide a buffering effect for run off contaminates.
 - b. Ditches should receive permanent seeding after the final grading and topsoil have been placed.
 - c. In turf areas where low maintenance seeding is required, native prairie grasses should be used in the final landscaping design.
 - d. Wet bottom ditches will be employed before outfalls. The ditches will be oversized to contribute to detention, where feasible. If wet bottom ditches are not feasible, the ditches will be lined with riprap.
- 6. Sediment traps located outside the final clear zone and below the elevation of the roadway subgrade will be left in place at the completion of the project.

c. Other Controls

- (i) Waste Disposal. No solid materials, including building materials, shall be discharged into Waters of the State, except as authorized by a Section 404 permit.
- (ii) The provisions of this plan shall ensure and demonstrate compliance with applicable State and/or local waste disposal, sanitary sewer or septic system regulations.

d. Approved State or Local Plans

The management practices, controls and provisions contained in this plan will be in accordance with IDOT specifications, which are at least as protective as the requirements contained in the Illinois Environmental Protection Agency's Illinois Urban Manual, 1995. Procedures and requirements specified in applicable sediment and erosion site plans or storm water management plans approved by local officials shall be described or incorporated by reference in the space provided below. Requirements specified in sediment and erosion site plans or site permits or storm water management site plans or site permits approved by local officials that are applicable to protecting surface water resources are, upon submittal of an NOI to be authorized to discharge under permit ILR10 incorporated by reference and are enforceable under this permit even if they are not specifically included in the plan.

Description of procedures and requirements specified in applicable sediment and erosion site plans or storm water management plans approved by local officials: See Erosion Control and Landscaping Plan.

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

3 Maintenance

The following is a description of procedures that will be used to maintain, in good and effective operating conditions, vegetation, erosion and sediment control measures and other protective measures identified in this plan (use additional pages, as necessary):

Construction equipment shall be stored and fueled only at designated locations. All necessary measures shall be taken to contain any fuel or pollution runoff in compliance with environmental law and EPA Water Quality Regulations. Leaking equipment or supplies shall be immediately repaired or removed from the site. The construction field engineer on a weekly basis shall inspect the project to determine that erosion controls efforts are in place and effective and if other control is necessary. Sediment collected during construction by the various temporary erosion systems shall be disposed on the site on a regular basis as directed by the Engineer.

All erosion and sediment control measures will be checked weekly and after each significant rainfall (13 mm (0.5 inch) or greater in a 24 hour period). The following items will be checked:

- 1. Seeding all erodable bare earth areas will be temporarily seeded and inspected on a weekly basis to minimize the amount of erodable surface within the contract limits.
- 2. Silt Filter Fence, all types
- 3. Erosion Control Blanket
- 4. Tree Protection
- 5. Ditch Checks
- 6. Temporary slope drains
- 7. Sediment/dewatering basins
- 8. Stabilized construction entrances

All maintenance of the erosion control systems will be the responsibility of the contractor. All locations where vehicles enter and exit the construction site and all other areas subject to erosion should also be inspected periodically. Inspection of these areas shall be made at least once every seven days and within 24 hours of the end of each 13 mm (0.5 inch) or greater rainfall, or an equivalent snowfall.

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

4 Inspections

Qualified personnel shall inspect disturbed areas of the construction site, which have not been finally stabilized, structural control measures, and locations where vehicles enter or exit the site. Such inspections shall be conducted at least once every seven (7)-calendar days and within 24 hours of the end of a storm that is 0.5 inches or greater or equivalent snowfall.

- a. Disturbed areas and areas used for storage of materials that are exposed to precipitation shall be inspected for evidence of, or the potential for, pollutants entering the drainage system. Erosion and sediment control measures identified in the plan shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving waters. Locations where vehicles enter or exit the site shall be inspected for evidence of off site sediment tracking.
- b. Based on the results of the inspection, the description of potential pollutant sources identified in section 1 above and pollution prevention measures identified in section 2 above shall be revised as appropriate as soon as practicable after such inspection. Any changes to this plan resulting from the required inspections shall be implemented within 7 calendar days following the inspection.
- c. A report summarizing the scope of the inspection, name(s) and qualifications of personnel making the inspection, the date(s) of the inspection, major observations relating to the implementation of this storm water pollution prevention plan, and actions taken in accordance with section 4.b. shall be made and retained as part of the plan for at least three (3) years after the date of the inspection. The report shall be signed in accordance with Part VI. G of the general permit.
- d. If any violation of the provisions of this plan is identified during the conduct of the construction work covered by this plan, the Resident Engineer or Resident Technician shall complete and file an "Incidence of Noncompliance" (ION) report for the identified violation. The Resident Engineer or Resident Technician shall use forms provided by the Illinois Environmental Protection Agency and shall include specific information on the cause of noncompliance, actions which were taken to prevent any further causes of noncompliance, and a statement detailing any environmental impact which may have resulted from the noncompliance. All reports of noncompliance shall be signed by a responsible authority in accordance with Part VI. G of the general permit.

The report of noncompliance shall be mailed to the following address:

Illinois Environmental Protection Agency Division of Water Pollution Control Attn: Compliance Assurance Section 1021 North Grand East Post Office Box 19276 Springfield, Illinois 62794-9276

5 Non-Storm Water Discharges

Except for flows from fire fighting activities, sources of non-storm water that is combined with storm water discharges associated with the industrial activity addressed in this plan must be described below. Appropriate pollution prevention measures, as described below, will be implemented for the non-storm water component(s) of the discharge. (Use additional pages as necessary to describe non-storm water discharges and applicable pollution control measures).

Dewatering activities for footing and pier construction of retailing walls and bridges will be a source of non-storm water discharge during construction. Contractors should discharge dewatering activities to a temporary settling basing surrounded by silt fence.

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

The cutting of joints in PCC pavements or bridge deck grooving will result in slurry. This slurry must be contained on the deck/pavement and cleaned up.

An additional source of non-storm water discharge during construction is the slurry from washing out redi-mix concrete trucks. Redi-mix concrete trucks should wash out in in designated areas surrounded by silt fence. After all PCC items have been constructed, the dried concrete wash material should be cleaned up and properly disposed of. It will be the contractor's responsibility to secure these designated areas for the duration of their use. The Engineer must approve the locations.

On site maintenance of equipment must be performed in accordance with environmental law, such as proper storage and no dumping of old engine oil or other fluids on site.

Good Housekeeping

- 1. An effort will be made to store only enough product required to do the job.
- 2. All materials stored on site will be stored in a neat, orderly manner in their appropriate containers, and if possible, under a roof or other enclosure.
- 3. Products will be kept in their original containers with the original manufacturer's label.
- 4. Substances will not be mixed with one another unless recommended by the manufacturer.
- 5. The site superintendent will inspect daily to ensure proper use and disposal of materials on the site.
- 6. Whenever possible, all of a product will be used up before disposing of the container.
- 7. Follow manufacturer's recommended practices for use and disposal.

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook



Contractor Certification Statement

This certification statement is a part of the Storm Water Pollution Prevention Plan for the project described below, in accordance with NPDES Permit No. ILR10, issued by the Illinois Environmental Protection Agency on May 30,

Project Information:							
Route FAI 80/94 and	IL 394	_ Marked	I-80/94,	Bishop	Ford	Expwy,	Kinger
Sectio See individual contract		_ Project N	No				
County Cook, Illinois	s and Lake, Indiana						
System (NPDES) perr	of law that I understand the te nit (ILR 10) that authorizes the ite identified as part of this certi	e storm water o					
	Signature			Date			
	Title	_					
	Name of Firm	_					
	Street Address	_					
City	State	_					
Zip Code		_					
Te	elephone Number	_					

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

TRAFFIC CONTROL PLAN

Effective: September 30, 1985 Revised: October 1, 1995

Traffic Control shall be in accordance with the applicable sections of the Standard Specifications, the Supplemental Specifications, the "Illinois Manual on Uniform Traffic Control Devices for Streets and Highways", any special details and Highway Standards contained in the plans, and the Special Provisions contained herein.

Special attention is called to Article 107.09 of the Standard Specifications and the following Highway Standards, Details, Quality Standard for Work Zone Traffic Control Devices, Recurring Special Provisions and Special Provisions contained herein, relating to traffic control.

The Contractor shall contact the District One Bureau of Traffic at least 72 hours in advance of beginning work.

STANDARDS:

701001 701006, 701101, 701106, 701301, 701400, 701401, 704001, 701501, 702001, 701801.

DETAILS:

MAINTENANCE OF TRAFFIC PLANS
DISTRICT 1 TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS
,INTERSECTIONS, AND DRIVEWAYS
TRAFFIC CONTROL FOR SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES
SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS
TRAFFIC CONTROL FOR STABILIZED CONSTRUCTION ENTRANCE/EXIT

SPECIAL PROVISIONS:

CHANGEABLE MESSAGE SIGN
FLAGGER VESTS
IMPACT ATTENUATORS, TEMPORARY
KEEPING EXPRESSWAY OPEN TO TRAFFIC
MAINTENANCE OF ROADWAYS
TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS)
TRAFFIC CONTROL PLAN
TRAFFIC CONTROL FOR WORK ZONE AREAS
WORK ZONE TRAFFIC CONTROL (LUMP SUM PAYMENT)

SUPPLEMENTAL SPECIAL PROVISIONS:

WORK ZONE TRAFFIC CONTROL DEVICES

RECURRING SPECIAL PROVISIONS:

DESIGNER'S NOTE: Designer must fill in categories of STANDARDS/DETAILS/RECURRING

SPECIAL PROVISIONS/SPECIAL PROVISIONS for each specific

project.

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

WORK RESTRICTIONS

The Contractor, the Erosion and Sediment Control Manager, and all sub-contractors are required to attend an Erosion and Sediment Control/Environmental Training meeting. The Department will present this meeting at a location to be determined by the Department. No work shall be performed on the contract before this meeting has taken place and all erosion control and environmental issues have been completed to the satisfaction of the Engineer.

MAINTENANCE OF TRAFFIC

Keeping The Expressway Open To Traffic:

Whenever work is in progress on or adjacent to an expressway, the Contractor shall provide the necessary traffic control devices to warn the public and to delineate the work zone as required in these Special Provisions, the Standard Specifications, the State Standards and the District Freeway Lane Closure Standards and details. All the Contractor's personnel shall be limited to these barricaded work zones and shall not cross the expressway.

The Contractor shall request and gain approval from the Illinois Department of Transportation's Expressway Traffic Operations Engineer (847-705-4155) twenty-four (24) hours in advance of all daily lane, ramp and shoulder closures and seventy-two (72) hours in advance of all permanent and weekend closures on all Freeways and/or Expressways in District One.

Temporary Lane Closures will only be permitted during the hours listed in the tables below:

LOCATION: I-80/94 Kingery (3- lane sections) I-294 to Calumet Ave. (US 41)

-						
WEEKNIGHT		TYPE	OF	ALLOWABLE LANE CLOSURE HOURS		
		CLOSURE				
SUNDAY	THRU	ONE LANE		9:00 PM	TO	5:00 AM
THURSDAY						
		TWO LANES		11:00 PM	TO	5:00 AM
FRIDAY		ONE LANE		10:00 PM (FRI)	TO	10:00 AM (SAT)
		TWO LANES		12:01 AM (SAT)	TO	7:00 AM (SAT)
SATURDAY		ONE LANE		9:00 PM (SAT)	TO	11:00 AM (SUN)
		TWO LANES		11:00 PM (SAT)	TO	9:00 AM (SUN)

Shoulder closures and partial non-interstate ramp closures, which are not shown on the maintenance of traffic plan sheets, will **not** be permitted during the hours of 5:00 AM to 9:00 AM and 3:00 PM to 7:00 PM. Monday thru Friday.

Full expressway closures will only be permitted for a maximum of 15 minutes at a time, during the low traffic periods of **1:00 AM** to **5:00 AM**., Monday through Friday and **1:00 AM** to **7:00 AM** on Sunday. During full expressway closures the Contractor is required to close off all lanes except one, using a District One Freeway Standard Closure. Police forces should be notified and requested to close the remaining lane at which time the work item may be removed or set in Ppplace. The District One Traffic Operations Department shall be notified (847-705-4155) seventy-two hours in advance of the proposed road closure and will coordinate the closure operations with police forces.

All stage changes, which require the stopping and/or the pacing of traffic, shall take place during the allowable hours for Full Expressway Closures and shall be approved by the Department.

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

All daily lane closures shall be removed during adverse **weather conditions** such as rain, snow, and/or fog and as determined by the Engineer.

Additional lane closure hour restrictions may have to be imposed to facilitate the flow of traffic to and from major sporting events and/or other events.

All lane closure signs shall not be erected any earlier than one-half (1/2) hour before the starting hours listed above. Also, these signs should be taken down within one-half (1/2) hour after the closure is removed.

The Contractor will be required to cooperate with all other contractors when erecting lane closures on the expressway. All lane closures within one (1) mile of each other in one direction of the expressway shall be on the same side of the pavement and any lane closure within a half (1/2) mile of each other should be connected. The maximum length of any lane closure on the project and combined with any adjacent projects shall be three (3) miles. Gaps between successive permanent lane closures shall be no less than two (2) miles in length.

Private vehicles shall not be parked in the work zone. Contractor's equipment and/or vehicles shall not be parked on the shoulders or in the median during non-working hours. The parking of equipment and/or vehicles on State right-of-way will only be permitted at the locations approved by the Engineer.

TRAFFIC CONTROL FOR WORK ZONE AREAS

Effective: 9/14/95 Revised: 1/30/03

Work zone entry and exit openings shall be established daily by the Contractor with the approval of the Engineer. All vehicles including cars and pickup trucks shall exit the work zone at the exit openings. All trucks shall enter the work zone at the entry openings. These openings shall be signed in accordance with the details shown elsewhere in the plans and shall be under flagger control during working hours.

The Contractor shall plan his trucking operations into and out of the work zone as well as on to and off the expressway to maintain adequate merging distance. Merging distances to cross all lanes of traffic shall be no less than 1/2 mile. This distance is the length from where the trucks enter the expressway to where the trucks enter the work zone. It is also the length from where the trucks exit the work zone to where the trucks exit the expressway. The stopping of expressway traffic to allow trucks to change lanes and/or cross the expressway is prohibited.

Failure to comply with the above requirements will result in a Traffic Control Deficiency charge. The deficiency charge will be calculated as outlined in the special provision for "TRAFFIC CONTROL DEFICIENCY DEDUCTION". The Contractor will be assessed this daily charge for each day a deficiency is documented by the Engineer.

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS)

Effective: 3/8/96 Revised: 08/19/03

This work shall include furnishing, installing, maintaining, replacing, relocating, and removing all traffic control devices used for the purpose of regulating, warning, or directing traffic. Traffic control and protection shall be provided as called for in the plans, applicable Highway Standards, District One Expressway details, Standards and Supplemental Specifications, these Special Provisions, or as directed by the Engineer.

GENERAL

The governing factor in the execution and staging of work for this project is to provide the motoring public with the safest possible travel conditions on the expressway through the construction zone. The Contractor shall arrange his operations to keep the closing of lanes and/or ramps to a minimum.

The Contractor shall be responsible for the proper location, installation, and arrangement of all traffic control devices. Special attention shall be given to existing warning signs and overhead guide signs during all construction operations. Warning signs and existing guide signs with down arrows shall be kept consistent with the barricade placement at all times. The Contractor shall immediately remove, completely cover, or turn from the motorist's view all signs which are inconsistent with lane assignment patterns.

The Contractor shall coordinate all traffic control work on this project with adjoining or overlapping projects, including barricade placement necessary to provide a uniform traffic detour pattern. When directed by the Engineer, the Contractor shall remove all traffic control devices that were furnished, installed, or maintained by him under this contract, and such devices shall remain the property of the Contractor. All traffic control devices shall remain in place until specific authorization for relocation or removal is received from the Engineer.

Signs

Prior to the beginning of construction operations, the Contractor will be provided a sign log of all existing signs within the limits of the construction zone. The Contractor is responsible for verifying the accuracy of the sign log. Throughout the duration of this project, all existing traffic signs shall be maintained by the Contractor. All provisions of Article 107.25 of the Standard Specifications shall apply except the third paragraph shall be revised to read: "The Contractor shall maintain, furnish, and replace at his own expense, any traffic sign or post which has been damaged or lost by the Contractor or a third party. The Contractor will not be held liable for third party damage to large freeway guide signs".

Exit Gore Signs

The exit gore signs as shown in Standard 701411 shall be a minimum size of 1.2m (48 inch) by 1.2m (48 inch) with 300mm (12 inch) capital letters and a 500mm (20inch) arrow.

Rough Grooved Surface Signs

The Contractor shall furnish and erect "Rough Grooved Surface" signs (W8-1107) on both sides of the expressway, 300m (1000') in advance of any milled area. These signs shall be erect on all ramps that enter the milled area. All signs shall be mounted at a minimum clearance height of 2.1m (7').

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

Drums/Barricades

Check barricades shall be placed in work areas perpendicular to traffic every 300m (1000'), one per lane and per shoulder, to prevent motorists from using work areas as a traveled way. Check barricades shall also be placed in advance of each open patch, or excavation, or any other hazard in the work area, the first at the edge of the open traffic lane and the second centered in the closed lane. Check barricades, either Type I or II, or drums shall be equipped with the flashing light.

To provide sufficient lane widths (3m [10'] minimum) for traffic and also working room, the Contractor shall furnish and install vertical barricades with steady burn lights, in lieu of Type II or drums, along the cold milling and asphalt paving operations. The vertical barricades shall be placed at the same spacing as the drums.

Vertical Barricades

Vertical barricades shall not be used in lane closure tapers, lane shifts, and exit ramp gores. Also, vertical barricades shall not be used as patch barricades or check barricades. Special attention shall be given, and ballast provided per manufacture's specification, to maintain the vertical barricades in an upright position and in proper alignment.

Temporary Concrete Barrier Wall

Prismatic barrier wall reflectors shall be installed on both the face of the wall next to traffic and the top of all temporary concrete barrier wall. These reflectors shall be placed at 15 meters (50 foot) centers along tangents and at 7.5 meters (25 foot) centers on curves. The color of these reflectors shall match the color of the edgelines (yellow on the left and crystal or white on the right). If the base of the temporary concrete barrier wall is 300 mm (12 inches) or less from the travel lane, then the wall shall also have a 150 mm (6 inch) wide temporary pavement marking edgeline (yellow on the left and white on the right).

Method of Measurement: This item of work will be measured on a lump sum basis for furnishing, installing, maintaining, replacing, relocating, and removing traffic control devices required in the plans and these Special Provisions. Traffic control and protection required under Standards 701101, 701411 and 701426 will be included with this item.

Basis of Payment:

a) This work will be paid for at the contract lump sum price for TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS). This price shall be payment in full for all labor, materials, transportation, handling, and incidental work necessary to furnish, install, maintain, replace, relocate, and remove all Expressway traffic control devices required in the plans and specifications.

In the event the sum total value of all the work items for which traffic control and protection is required is increased or decreased by more than ten percent (10%), the contract bid price for Traffic Control and Protection will be adjusted as follows:

Adjusted contract price = .25P + .75P [1+(X-0.1)]

Where "P" is the bid unit price for Traffic Control and Protection:

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

Difference between original and final sum total value of all work items for which traffic Where "X" = control and protection is required.

Original sum total value of all work items for which

traffic control and protection is required.

The value of the work items used in calculating the increase and decrease will include only items that have been added to or deducted from the contract under Article 104.02 of the Standard Specifications and only items which require use of Traffic Control and Protection.

- b) The <u>Engineer</u> may require additional traffic control be installed in accordance with standards and/or designs other than those included in the plans. In such cases, the standards and/or designs will be made available to the Contractor at least one week in advance of the change in traffic control. Payment for any additional traffic control required will be in accordance with Article 109.04 of the Standard Specifications.
- c) Revisions in the phasing of construction or maintenance operations, requested by the <u>Contractor</u>, may require traffic control to be installed in accordance with standards and/or designs other than those included in the plans. Revisions or modifications to the traffic control shown in the contract shall be submitted by the Contractor for approval by the Engineer. No additional payment will be made for a Contractor requested modification.
- d) Temporary concrete barrier wall will be measured and paid for according to Section 704.

Impact attenuators, temporary bridge rail, and temporary rumble strips will be paid for separately.

All temporary pavement markings will be measured and paid for according to Section 703 and Section 780.

All pavement marking removal will be measured and paid for according to Section 703 or Section 783.

Temporary pavement marking at the base of the temporary concrete barrier wall will be measured and paid for as TEMPORARY PAVEMENT MARKING, 150 MM (6").

All prismatic barrier wall reflectors will be measured and paid for according to Section 782.

WORK ZONE TRAFFIC CONTROL (LUMP SUM PAYMENT)

Effective: February 1, 1996 Revised: November 1, 1996

Specific traffic control plan details and Special Provisions have been prepared for this contract.

Method of Measurement: All traffic control (except traffic control pavement marking) indicated on the traffic control plan details and specified in the Special Provisions will be measured for payment on a lump sum basis. Traffic control pavement markings will be measured per meter (foot).

Basis of Payment: All traffic control and protection will be paid for at the contract lump sum price for TRAFFIC CONTROL AND PROTECTION (SPECIAL). This price shall be payment in full for all labor, materials, transportation, handling and incidental work necessary to furnish,

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

install, maintain and remove all traffic control devices required as indicated in the plans and as approved by the Engineer.

SHORT TERM PAVEMENT MARKING, TEMPORARY PAVEMENT MARKING and PAVEMENT MARKING TAPE TYPE III will be paid for separately.

Designer's Note: This special provision is to be used for lump sum payment of traffic

control and protection only when approved by the Bureau Chief.

CIVIL

Aggregate Subgrade, 300mm (12")

Effective: May 1, 1990 Revised: July 1, 1999

This work shall be done in accordance with the applicable portions of Section 207 of the Standard Specifications. The material shall conform with Article 1004.06 of the Standard Specifications except as follows:

Crushed Stone, Crushed Blast Furnace Slag, and Crushed Concrete will be permitted.
 Steel slag and other expansive materials as determined through testing by the Department will not be permitted.

Sieve Size	Percent Passing
150 mm (6 inches)	97 <u>+</u> 3
100 mm (4 inches)	90 <u>+</u> 10
50 mm (2 inches)	45 <u>+</u> 25
75 μm (#200)	5 <u>+</u> 5

2. Gravel, Crushed Gravel, and Pit Run Gravel

Sieve Size	Percent Passing		
150 mm (6 inches)	97 <u>+</u> 3		
100 mm (4 inches)	90 <u>+</u> 10		
50 mm (2 inches)	55 <u>+</u> 25		
4.75 mm (#4)	30 <u>+</u> 20		
75 μm (#200)	5+5		

3. Crushed Concrete with Bituminous Materials**

<u>Sieve Size</u>	Percent Passing
150 mm (6 inches)	97 <u>+</u> 3
100 mm (4 inches)	90 <u>+</u> 10
50 mm (2 inches)	45 <u>+</u> 25
4.75 mm(#4)	20 <u>+</u> 20
75 μm (#200)	5 <u>+</u> 5

^{**}The bituminous material shall be separated and mechanically blended with the crushed concrete so that the bituminous material does not exceed 40% of the final product. The top size of the bituminous material in the final product shall be less than 100 mm (4 inches) and shall not contain steel slag or any material that is considered expansive by the Department.

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

The Aggregate subgrade shall be placed in two lifts consisting of a 225 mm (9 inches) and variable nominal thickness lower lift and a 75 mm (3 inches) nominal thickness top lift of capping aggregate having a gradation of CA 6. Reclaimed Asphalt Pavement (RAP) meeting Article 1004.07 of the Standard Specifications and having 100% passing the 75 mm (3 inches) sieve and well-graded down through fines may also be used as capping aggregate. RAP shall not contain steel slag or other expansive material. The results of the Department's tests on the RAP material will be the determining factor for consideration as expansive. A vibratory roller meeting the requirements of Article 1101.01 of the Standard Specifications shall be used to roll each lift of material to obtain the desired keying or interlock and necessary compaction. The Engineer will verify that adequate keying has been obtained.

When a recommended remedial treatment for unstable subgrades is included in the contract, the lower lift of Aggregate Subgrade may be placed simultaneously with the material for Porous Granular Embankment, Subgrade when the total thickness to be placed is 600 mm (2 feet) or less.

Method of Measurement.

- (a) Contract Quantities. Contract quantities shall be in accordance with Article 202.07.
- (b) Measured Quantities. Aggregate subgrade will be measured in place and the area computed in square meters (square yards).

Basis of Payment. This work will be paid for at the contract unit price per square meter (square yard) for AGGREGATE SUBGRADE, 300 mm (12"), which price shall include the capping aggregate.

Z0001050 AGG SUBGRADE 12 SQ YD MZ001050 AGG SUBGRADE 300 SQ. M

AGGREGATE SURFACE COURSE FOR TEMPORARY ACCESS

Effective: April 1, 2001

Revise Article 402.10 of the Standard Specifications to read:

"402.10 For Temporary Access. The contractor shall construct and maintain aggregate surface course for temporary access to private entrances, commercial entrances and roads according to Article 402.07 and as directed by the Engineer.

The aggregate surface course shall be constructed to the dimensions and grades specified below, except as modified by the plans or as directed by the Engineer.

- (a) Private Entrance. The minimum width shall be 3.6 m (12 ft). The minimum compacted thickness shall be 150 mm (6 in.). The maximum grade shall be eight percent, except as required to match the existing grade.
- (b) Commercial Entrance. The minimum width shall be 7.2 m (24 ft). The minimum compacted thickness shall be 230 mm (9 in.). The maximum grade shall be six percent, except as required to match the existing grade.

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

(C) Road. The minimum width shall be 7.2 m (24 ft). The minimum compacted thickness shall be 230 mm (9 in.). The grade and elevation shall be the same as the removed pavement, except as required to meet the grade of any new pavement constructed.

Maintaining the temporary access shall include relocating and/or regrading the aggregate surface coarse for any operation that may disturb or remove the temporary access. The same type and gradation of material used to construct the temporary access shall be used to maintain it.

When use of the temporary access is discontinued, the aggregate shall be removed and utilized in the permanent construction or disposed of according to Article 202.03."

Add the following to Article 402.12 of the Standard Specifications:

"Aggregate surface course for temporary access will be measured for payment as each for every private entrance, commercial entrance or road constructed for the purpose of temporary access. If a residential drive, commercial entrance, or road is to be constructed under multiple stages, the aggregate needed to construct the second or subsequent stages will not be measured for payment but shall be included in the cost per each of the type specified."

Revise the second paragraph of Article 402.13 of the Standard Specifications to read.

"Aggregate surface course for temporary access will be paid for at the contract unit price per each for TEMPORARY ACCESS (PRIVATE ENTRANCE), TEMPORARY ACCESS (COMMERCIAL ENTRANCE) or TEMPORARY ACCESS (ROAD).

Partial payment of the each amount bid for temporary access, of the type specified, will be paid according to the following schedule:

- (a) Upon construction of the temporary access, sixty percent of the contract unit price per each, of the type constructed, will be paid.
- (b) Subject to the approval of the Engineer for the adequate maintenance and removal of the temporary access, the remaining forty percent of the pay item will be paid upon the permanent removal of the temporary access."

4020211

COMPOST FURNISH AND PLACE

Delete the first sentence of Article 211.01 Description and substitute the following:

This work shall consist of furnishing, transporting and placing topsoil, special types of topsoil, compost, or compost/topsoil blend to the depth specified in areas as shown in the plans or as directed by the Engineer.

Delete the first sentence of the first paragraph of Article 211.04 Placing Topsoil and Compost and substitute the following:

Topsoil, compost, or compost/topsoil blend shall not be placed until the area to be covered has been shaped, trimmed and finished according to Section 212.

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

Delete the first sentence of the second paragraph of Article 211.04 Placing Topsoil and Compost and substitute the following:

The Engineer will verify that that the proper topsoil, compost, or compost/topsoil blend depth has been applied.

Add the following to Article 211.06 Clearing Area and Disposal of Surplus Material:

Prior to placing topsoil, compost or compost/topsoil blend, the contractor shall remove all litter (including plastic bags, bottles, rocks, etc.) and plant debris.

Add the following to Article 211.08 Basis of Payment:

Payment shall include all costs for materials, equipment and labor required to complete the work specified herein, including the cost of removing and disposing of any debris.

CONCRETE BARRIER (DISTRICT 1)

Effective: February 11, 2004

Revise Section 637 of the Standard Specifications to read:

"SECTION 637. CONCRETE BARRIER

637.01 Description. This work shall consist of constructing a concrete barrier and its base.

637.02 Materials. Materials for concrete barrier and concrete base shall conform to the requirements of the following Articles of Section 1000 - Materials:

Item	Article/Section
(a) Portland Cement Concrete	1020
(b) Tie Bars (Note 1)	1006.10(a)(b)
(c) Dowel Bars	1006.11(b)
(d) Protective Coat	1023
(e) Non-Shrink Grout	
(f) Chemical Adhesive	
(g) Preformed Expansion Joint Filler	1051.01 – 1051.08

Note 1. Tie bars shall be Grade 400 (Grade 60).

The coarse aggregate to be used in the concrete barrier walls shall conform to the requirements for the coarse aggregate that is used for superstructure concrete.

Materials for bituminous concrete base shall conform to the requirements of Article 356.02.

637.03 Equipment. Equipment for concrete barrier shall conform to the requirements of the following Articles of Section 1100 - Equipment:

Item	Article/Section
(a) Hand Vibrator	1103.17(a)
(b) 3 m (10 ft) Straightedge	` '

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

Equipment for portland cement concrete base shall conform to the requirements of Article 483.03.

Equipment for bituminous concrete base shall conform to the requirements of Article 356.03.

CONSTRUCTION REQUIREMENTS

637.04 Barrier Base. The base may be constructed separately or poured monolithically with the barrier. When constructed separately, portland cement concrete base shall be constructed according to Articles 483.04 – 483.06, except the surface shall be finished according to Articles 503.09(a). Bituminous concrete base shall be constructed according to Articles 356.05 and 356.06.

- **637.05 Anchoring.** Barrier shall be anchored to the base by the methods shown on the plans. When tie bars are used, they shall be installed in preformed or drilled holes with a non-shrink grout or chemical adhesive.
- **637.06 Barrier Construction.** Concrete barrier shall be constructed according to the applicable portions of Articles 503.06 and 503.07. Where the horizontal alignment of the concrete barrier is curved, the barrier shall be constructed either on the curved alignment or on cords not more than 3 m (10 ft) in length.

When slipformed, the vertical centerline of the barrier shall not vary from the proposed centerline by more than 75 mm (3 in.) nor by more than 13 mm in 3 m (1/2 in. in 10 ft). All surfaces shall be checked with a 3 m (10 ft) straightedge as the concrete exits the slipform mold. Surface irregularities greater than 10 mm in 3 m (3/8 in. in 10 ft) shall be corrected immediately. Continued variations in the barrier surface exceeding 6 mm in 3 m (1/4 in. in 10 ft) will not be permitted and remedial action shall immediately be taken to correct the problem. Any deformations or bulges remaining after the initial set shall be removed by grinding after the concrete has hardened. All holes and honeycombs shall be patched immediately.

- **637.07 Barrier Transitions.** Transitions between barriers of different design shall be constructed according to the details shown on the plans.
 - **637.08 Joints.** Joints shall be constructed as shown on the plans and as follows:
 - (a) Construction Joints. Construction joints shall be constructed in the barrier whenever there is an interruption in the pour of more than 30 minutes.
 - (b) Expansion Joints. Expansion joints shall be constructed in the barrier and the base in line with expansion joints in the adjacent pavement or shoulder. Expansion joints shall also be constructed at locations where the barrier abuts a rigid structure.
 - Prior to placing concrete, a light coating of oil shall be uniformly applied to the dowel bars.
 - (c) Contraction Joints. Contraction joints shall be constructed in the barrier at uniform intervals with a maximum spacing of 6 m (20 ft) or in line with contraction joints in the adjacent pavement or shoulder. Contraction joints shall be formed by a groove 3 mm (1/8 in.) wide by 50 mm (2 in.) deep either formed in the plastic concrete or sawed after the concrete has set.

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

637.09 Finishing. The surface of concrete barrier shall be finished according to Article 503.16(a).

637.10 Protective Coat. When required, the top and vertical surfaces of the barrier exposed to traffic shall receive a protective coat. The application of the protective coat shall be according to Article 420.21.

637.11 Method of Measurement. This work will be measured as follows:

- (a) Contract Quantities. The requirements for the use of contract quantities shall be according to Article 202.07(a).
- (b) Measured Quantities. New barrier base, both separate and monolithic, will be measured for payment in meters (feet) in place, along the centerline of the base or barrier. The width of the base will be defined as the width of the barrier.

Concrete barrier will be measured for payment in meters (feet) in place, along the centerline of the barrier.

Barrier transitions will be measured for payment in meters (feet) in place, along the centerline of the transition.

Protective coat will be measured for payment according to Article 420.22(b).

637.12 Basis of Payment. This work will be paid for at the contract unit price per meter (foot) for BARRIER BASE; CONCRETE BARRIER, DOUBLE FACE, of the height specified; CONCRETE BARRIER, SINGLE FACE, of the height specified; and CONCRETE BARRIER TRANSITION.

Protective coat will be paid for according to Article 420.23."

ENGINEER'S FIELD OFFICE, TYPE A (SPECIAL)

Effective: March 1, 2002 Revised:

Revise Article 670.02 para, 1 line 1 to read: "Type A-1 Field Office shall have a ceiling height of not less that 7 feet and a floor space of not less than 800 square feet with a minimum of three separate offices."

Revise Article 670.02 para. 6 (j) to read: "(1) desk top copier with automatic feed and sorter (including maintenance and operating supplies capable of copying field book, 8-1/2" X 11", 8-1/2" X 14" and 11" X 17" size paper).

Revise Article 670.02 (a) to increase the amount of desks and chairs to 8 each.

Revise Article 670.02 (d) to increase amount of file cabinets to 2 each.

Revise Article 670.02 (e) to increase amount of folding chairs to 20 each.

Revise Article 670.02 (h) to increase amount of calculators to 2 each.

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

Revise Article 670.02 (i) to provide for 4 phones, 2 answering machines, 5 telephone lines, including one line for the fax machine and one line for the computer.

Included in the above items is 1 phone, 1 answering machine, and a separate phone line for the State Resident Engineer's use.

In addition to the requirements outlined under Section 670.02 of the Standard Specifications, the following items are to be included:

- Provide 1 electric water cooler dispenser and a water service.
- Provide two 4' X 6' Dry Erase Boards.
- Provide 2 8' folding tables
- Provide 1 plain paper fax with a maintenance agreement and supplies.
- Provide a minimum weekly cleaning service for the office.
- Provide 2 fire extinguishers.
- Provide a complete first aid kit.

The office should also have a separate storage room capable of being locked for the storage of the nuclear measuring devices.

Provide a minimum of 7 waste paper baskets.

Posted: 4/25/02

FENCE REMOVAL

This work shall consist of the removal and disposal of existing fence at the locations shown on the plans and as directed by the Engineer. The work shall include the removal and disposal of the fence, posts, post foundations, and any other appurtenances.

All holes left by the removal of the fence posts and post foundations shall be filled with crushed stone screenings. The furnishing and placement of the crushed stone screenings will not be paid for separately but shall be considered as incidental to fence removal.

Method of Measurement. This work will be measured for payment in meters (feet) along the top of the fence of the area to be removed.

Basis of payment. This work will be paid for at the contract unit price per meters (feet) for FENCE REMOVAL, which price shall be payment in full for all labor, equipment and materials necessary to complete the work as specified herein.

GENERAL REQUIREMENTS FOR WEED CONTROL SPRAYING

Effective: September 13, 2002 Revised:

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

Experience: The Contractor shall have previous experience with the use of weed control chemicals. He/She shall have had at least one (1) season's experience in the use of their chemicals in spraying highway right-of-way or at least three (3) season's experience in their use in farm or custom spraying. The Contractor shall observe and comply with all sections of the Illinois Custom Spray Law, including licensing.

Equipment: The equipment used shall consist of a vehicle-mounted tank, pump, spray bar and handgun, plus any other accessories needed to complete the specified work. Spraying shall be done through multiple low-pressure flooding or broad jet nozzles mounted on spray bars operated not more than 36" above the ground. If different sizes or types of nozzles are used to make up the spray pattern, the pressure, sizes and capacities shall be adjusted to provide a uniform rate of application for each segment of the spray pattern. Hand spray guns may be used for spraying areas around traffic control devices, lighting standard and similar inaccessible areas. Maximum speed of the spray vehicle during application of chemical shall be five (5) miles per hour.

Pumps used shall have a volume and pressure capacity range sufficient to deliver the mixture at a pressure to provide the required coverage and to keep the spray pattern full and steady without pulsation or excessive pressure as to cause fogging. Maximum pressure for application shall be 15 PSI. Quick acting shut-off valves and spring-loaded ball check valves shall be provided to stop the spray pattern with a minimum of nozzle drip. In areas where the spray vehicle must traverse the right-of-way, a four-wheel drive vehicle with flotation tires will be required to minimize damage to the ground surface.

Prior to beginning work, the Contractor shall obtain approval from the Engineer of the spraying equipment proposed for completing this work. The proposed equipment shall be in an operational condition and available for inspection by the Engineer at least two (2) weeks prior to the proposed starting time. If requested by the Engineer, the Contractor shall demonstrate the calibration of the equipment.

Spraying Areas: This work includes roadsides and other types of right-of-way of various widths and gradients. Spraying areas often extend more than thirty (30) feet from the edge of the roadway, requiring both spray bar and hand gun application.

When the description of work requires weed control of a stated species, such as teasel, the chemical shall be applied only to locations where the stated species is present. When the description of work requires general weed control within a bed or area, such as broadleaf weed control in turf, then the chemical shall be applied to the entire bed or area.

Exclusion of Spraying Areas: Areas where weed control spraying is inappropriate or detrimental to the environment, desirable planting, or private property shall be excluded from the spray area.

Spraying will not be permitted over any drainage swales or waterways, or other areas where the chemical label prohibits application. Spraying within 150 feet of a natural area or site where endangered or threatened species occur.

Responsibility for Prevention of Damage to Private Property: The Contractor shall, at all times, exercise extreme caution to prevent damage to residential plantings, flower or vegetable gardens, vegetable crops, farm crops, orchard or desirable plants adjacent to the roadside.

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

The Contractor or Department receives a complaint, the Contractor shall conduct a complaint within ten (10) days after receiving the claim for damages, either in person or by letter. The Contractor, or his authorized representative, shall make a personal contact with the complainant within twenty (20) days. The Engineer shall also be notified by the Contractor of all claims for damage he received and shall keep the Engineer informed as to the progress in arriving at a settlement for such claims.

Communication with the Engineer: The Contractor is required to communicate with the Engineer to receive all required approvals in a timely way and to assure that the Engineer can accurately document the work performed.

It shall be the Contractor's responsibility to assure that all chemical containers are opened and added to the spray mixture in the presence of the Engineer.

The Contractor shall obtain approval from the Engineer to proceed with spraying at each location 24 hours prior to the proposed spray operations.

NON-SPECIAL WASTE WORKING CONDITIONS

This work shall be according to Article 669 of the Standard Specifications for Road and Bridge Construction adopted January 1, 2002 and the following:

Qualifications. The term environmental firm shall mean an environmental firm with at least five (5) documented leaking underground storage tank (LUST) cleanups or that is prequalified in hazardous waste by the Department. Documentation includes but not limited to verifying remediation and special waste operations for sites contaminated with gasoline, diesel, or waste oil in accordance with all Federal, State, or local regulatory requirements and shall be provided to the Engineer for approval.

General. Implementation of this Special Provision will likely require the Contractor to subcontract for the execution of certain activities. It will be the Contractor's responsibility to assess the working conditions and adjust anticipated production rates accordingly.

The Contractor shall manage all contaminated materials as non-special waste as previously identified. This work shall include monitoring and potential sampling, analytical testing, and management of material contaminated by regulated substances.

The Contractor shall excavate and dispose of any soil classified as a non-special waste or groundwater classified as a special waste as directed by this project or the Engineer. Any excavation or disposal beyond what is required by this project or the Engineer shall be at the Contractor's expense. The preliminary site investigation (PSI) report, available through the District's Environmental Studies Unit, estimated the excavation quantity of non-special waste at the following location. The information available at the time of plan preparation determined the limits of the contamination and the quantities estimated were based on soil and groundwater excavation for construction purposes only. The lateral distance is measured from centerline and the farthest distance is the offset distance or construction limit which ever is less. The Environmental Firm shall continuously monitor for worker protection and the Contractor shall manage and dispose of all soils excavated within the following areas as classified below.

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

1. Station 31+295 to Station 31+329 \pm 0 to 15 meters (0 to 49 feet) LT (Raymond Industries - 1805 Bernice Road) - non-special waste.

- 2. Station 31+443 to Station 31+450 \pm 0 to 15 meters (0 to 49 feet) LT (L&C Crane 1845 Bernice Road) Non-special waste.
- 3. Station 191+830 to Station 191+835 \pm 0 to 30 meters (0 to 98 feet) RT (Ruan Leasing Company 2700 East 175th Street) non-special waste.
- 4. Station 191+875 to Station 191+881 \pm 0 to 30 meters (0 to 98 feet) RT (Amerigas 2801 175th Street) non-special waste.
- 5. Station 319+391 to Station 319+396 ± 0 to 15 meters (0 to 49 feet) RT (Pavement Maintenance Supply Warehouse 17500 Railroad Avenue) non-special waste.
- 6. Station 319+467 to Station 319+473 \pm 0 to 10 meters (0 to 33 feet) RT (Unique Systems 2929 East 175th Street) non-special waste.
- 7. Station 32+982 to Station 33+013 \pm 0 to 25 meters (0 to 82 feet) LT (Great Lakes Distributing 2601 Bernice Road) non-special waste.
- 8. Station 33+077 to Station 33+124 ± 0 to 25 meters (0 to 82 feet) LT (Hollywood Park 2635 Bernice Road) non-special waste.
- 9. Station 33+197 to Station 34+212 ± 0 to 25 meters (0 to 82 feet) LT (Meccon Industries 2705 Bernice Road) non-special waste.
- 10. Station 33+248 to Station 33+265 ± 0 to 25 meters (0 to 82 feet) LT (South County Auto Body 2735 Bernice Road) non-special waste.
- 11. Station 33+216 to Station 33+331 \pm 0 to 25 meters (0 to 82 feet) LT (Follmar's Service 2750 Bernice Road) non-special waste.
- 12. Station 33+331 to Station 33+344 ± 0 to 25 meters (0 to 82 feet) LT (Tim's Towing Service 2760 Bernice Road) non-special waste.

Although the above areas contain contaminated soil, the Environmental Firm must continuously monitor for worker protection and soil contamination at the following areas.

- Station 31+290 to Station 31+335 +/- 0 to 15 meters (0 to 49 feet) LT (Raymond Industries 1805 Bernice Road). Contaminants of concern sampling parameters: PNAs, Arsenic, and TCLP Lead.
- 2. Station 31+430 to Station 31+460 +/- 0 to 15 meters (0 to 49) feet) LT (L&C Crane 1845 Bernice Road). Contaminants of concern sampling parameters: PNAs and Arsenic.
- 3. Station 191+820 to Station 191+845 +/- 0 to 30 meters (0 to 98 feet) RT (Ruan Leasing Company 2700 East 175th Street). Contaminants of concern sampling parameters: PNAs.
- 4. Station 191+865 to Station 191+891 +/- 0 to 30 meters (0 to 98 feet) RT (Amerigas 2801 175th Street). Contaminants of concern sampling parameters: PNAs.
- 5. Station 319+391 to Station 319+396 +/- 0 to 15 meters (0 to 49 feet) RT (Pavement Maintenance Supply Warehouse 17500 Railroad Avenue). Contaminants of concern sampling parameters: PNAs.
- 6. Station 319+467 to Station 319+473 +/- 0 to 10 meters (0 to 33 feet) RT (Unique Systems 2929 East 175th Street). Contaminants of concern sampling parameters: PNAs and TCLP Lead.
- 7. Station 32+970 to Station 33+020 +/- 0 to 25 meters (0 to 82 feet) LT (Great Lakes Distributing 2601 Bernice Road). Contaminants of concern sampling parameters: PNAs and Arsenic.
- 8. Station 33+060 to Station 33+130 +/- 0 to 25 meters (0 to 82 feet) LT (Hollywood Park 2635 Bernice Road). Contaminants of concern sampling parameters: PNAs and Arsenic.
- 9. Station 33+185 to Station 34+220 +/- 0 to 25 meters (0 to 82 feet) LT (Meccon Industries 2705 Bernice Road). Contaminants of concern sampling parameters: Arsenic.
- 10. Station 33_240 to Station 33+270 +/- 0 to 25 meters (0 to 82 feet) (South County Auto Body 2735 Bernice Road). Contaminants of concern sampling parameters: PNAs.

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

 Station 33+205 to Station 33+331 +/- 0 to 25 meters (0 to 82 feet) LT (Follmar's Service -2750 Bernice Road). Contaminants of concern sampling parameters: PNAs and RCRA Metals (8).

12. Station 33+331 to Station 33_350 +/- 0 to 25 meters (0 to 82 feet) LT (Tim's Towing Service - 2760 Bernice Road). Contaminants of concern sampling parameters: PNAs and RCRA Metals (8).

Backfill pugs shall be placed within the following locations.

Station 31+443 to Station 31+450 +/- 0 to 15 meters (0 to 49 feet) LT (L&C Crane - 1845 Bernice Road). Contaminants of concern sampling parameters: PNAs.

Station 191+830 to Station 191+835 +/- 0 to 30 meters (0 to 98 feet) RT (Ruan Leasing Company - 2700 East 175th Street). Contaminants of concern sampling parameters: PNAs.

Station 191+875 to Station 191+881 +/- 0 to 30 meters (0 to 98 feet) RT (Amerigas - 2901 175th Street). Contaminants of concern sampling parameters: PNAs.

Station 319+391 to Station 319+396 +/- 0 to 15 meters (0 to 49 feet) RT (Pavement Maintenance Supply Warehouse - 17500 Railroad Avenue). Contaminants of concern sampling parameters: PNAs.

Station 33+007 to Station 33+013 +/- 0 to 25 meters (0 to 82 feet) LT (Great Lakes Distributing - 2601 Bernice Road). Contaminants of concern sampling parameters: PNAs.

Station 33+240 to Station 33+272 +/- 0 to 25 meters (0 to 82 feet) LT (South County Auto Body - 2735 Bernice Road). Contaminants of concern sampling parameters: PNAs.

Station 33+272 to Station 33+331 +/- 0 to 25 meters (0 to 82 feet) LT (Follmar's Service - 2750 Bernice Road). Contaminants of concern sampling parameters: PNAs.

Station 33+331 to Station 33+350 +/- 0 to 25 meters (0 to 82 feet) LT (Tim's Towing Service - 2760 Bernice Road). Contaminants of concern sampling parameters: PNAs.

Basis of Payment. Priority Pollutant VOCS SOIL ANALYSIS using EPA Method 8260B for VOCs. This price shall include transporting the sample from the job site to the laboratory.

Priority Pollutant VOCS-SVOCS SOIL ANALYSIS using EPA Method 8260B for VOCs and EPA Method 8270C for SVOCs. This price shall include transporting the sample from the job site to the laboratory.

LEAD TCLP SOIL ANALYSIS using an ICP instrument and EPA Methods 1311 (extraction) and 6010B will be paid for at the contract unit price per EACH. This price shall include transporting the sample from the job site to the laboratory.

PCRA METALS AND pH SOIL ANALYSIS using an ICP instrument and EPA Methods 6010B, 7471A, and 9045C will be paid for at the contract unit price per EACH. This price shall include transporting the sample from the job site to the laboratory.

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

ARSENIC AND pH SOIL ANALYSIS using an ICP instrument and EPA Methods 6010B, 7471A, and 9045C will be paid for at the contract unit price per EACH. This price shall include transporting the sample from the job site to the laboratory.

POROUS GRANULAR EMBANKMENT, SUBGRADE

Effective: September 30, 1985 Revised: November 1, 1996

This work consists of furnishing, placing, and compacting porous granular material to the lines and grades shown on the plans or as directed by the Engineer in accordance with applicable portions of Section 207 of the Standard Specifications. The material shall be used as a bridging layer over soft, pumpy, loose soil and for placing under water and shall conform with Article 1004.06 of the Standard Specifications except the gradation shall be as follows:

1. Crushed Stone, Crushed Blast Furnace Slag, and Crushed Concrete

Sieve Size	Percent Passing
*150 mm (6 inches)	97 <u>+</u> 3
*100 mm (4 inches)	90 <u>+</u> 10in
50 mm (2 inches)	45 <u>+</u> 25
75 um (#200)	5 <u>+</u> 5

2. Gravel, Crushed Gravel and Pit Run Gravel

Sieve Size	Percent Passing
*150 mm (6 inches)	97 <u>+</u> 3
*100 mm (4 inches)	90 <u>+</u> 10
50 mm (2 inches)	55 <u>+</u> 25
4.75 mm (#4)	30 <u>+</u> 20
75 um (#200)	5 <u>+</u> 5

^{*}For undercut greater than 450 mm (18 inches) the percent passing the 150 mm (6 inches) sieve may be 90±10 and the 100 mm (4 inches) sieve requirements eliminated.

The porous granular material shall be placed in one lift when the total thickness to be placed is 600 mm (2 feet) or less or as directed by the Engineer. Each lift of the porous granular material shall be rolled with a vibratory roller meeting the requirements of Article 1101.01 of the Standard Specifications to obtain the desired keying or interlock and compaction. The Engineer shall verify that adequate keying has been obtained.

A 75 mm (3 inches) nominal thickness top lift of capping aggregate having a gradation of CA 6 will be required when Aggregate Subgrade is not specified in the contract and Porous Granular Embankment, Subgrade will be used under the pavement and shoulders. Capping aggregate will not be required when embankment meeting the requirements of Section 207 of the Standard Specifications or granular subbase is placed on top of the porous granular material.

Construction equipment not necessary for the completion of the replacement material will not be allowed on the undercut areas until completion of the recommended thickness of the porous granular embankment subgrade.

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

Full depth subgrade undercut should occur at limits determined by the Engineer. A transition slope to the full depth of undercut shall be made outside of the undercut limits at a taper of 300 mm (1 foot) longitudinal per 25 mm (1 inch) depth below the proposed subgrade or bottom of the proposed aggregate subgrade when included in the contract.

This work will be measured for payment in accordance with Article 207.04 of the Standard Specifications. When specified on the contract, the theoretical elevation of the bottom of the aggregate subgrade shall be used to determine the upper limit of Porous Granular Embankment, Subgrade. The volume will be computed by the method of average end areas.

This work shall be paid for at the contract unit price per cubic meter (cubic yard) for POROUS GRANULAR EMBANKMENT, SUBGRADE which price shall include the capping aggregate, when required.

The Porous Granular Embankment, Subgrade shall be used as field conditions warrant at the time of construction. No adjustment in unit price will be allowed for an increase or decrease in quantities from the estimated quantities shown on the plans.

X2090400 POROUS GRAN EMB SUBGR CU YDM2070420 POROUS GRAN EMB SUBGR CU M

REMOVE EXISTING FLASHING BEACON INSTALLATION COMPLETE

Description. This work shall consist of the complete removal, and delivery of an existing sign mounted flashing beacon to the Indiana Department of Transportation. The removal items shall include post and controller including removal of underground conduit and trenching and backfilling as directed by the Engineer.

Materials. All removed materials salvaged and delivered to the location directed by the Engineer. Contact the Indiana Department of Transportation 219-939-3650, Mr. Troy Boyd for information regarding delivery of salvaged items.

Construction Requirements. Notify the Engineer at least 7 days prior to removal of the item.

Method of Measurement. The single location and associated work shall be counted as EACH item for payment which shall include the removal of all beacons attached to a single sign.

Basis of Payment. This work will be paid for at the contract unit price for REMOVE EXISTING FLASHING BEACON INSTALLATION COMPLETE, which price shall be payment in full for all materials, equipment, and labor necessary to remove, store and deliver the flashing beacon to the location as directed by the Engineer.

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

RECLAIMED ASPHALT PAVEMENT (RAP) FOR TEMPORARY ACCESS ENTRANCES AND/OR AGGREGATE SHOULDERS, TYPE B

Effective: April 1, 2001

Replace the <u>Note</u> in Articles 402.02(a) and 481.02(a) of the Standard Specifications for Road and Bridge Construction with the following:

"Note: Reclaimed asphalt pavement (RAP) may be used as aggregate in surface course for temporary access entrances and/or aggregate shoulders Type B. The RAP material shall be reclaimed asphalt pavement material resulting from the cold milling or crushing of an existing hot-mix bituminous concrete pavement structure, including shoulders. RAP containing contaminants such as earth, brick, concrete, sheet asphalt, sand, or other materials identified by the Department will be unacceptable until the contaminants are thoroughly removed. The RAP shall also meet the following requirements:

One hundred percent of the RAP material shall pass the 37.5 mm (1 1/2 inch) sieve. The RAP material shall be reasonably well graded from coarse to fine. RAP material that is gap-graded or single-sized will not be accepted."

SEEDING, CLASS 4B (MODIFIED)

Effective: August 12, 1998 Revised:

All work, materials and equipment shall conform to Section 250 and 1081 of the Standard Specifications except as modified herein.

The Class 4B (Modified) seed mix shall be supplied in pounds of Pure Live Seed. All native species will be local genotypes and will be from a radius of 150 miles from the site. The Class 4B (Modified) seed mix shall be supplied with the appropriate inoculants. Fertilizer in not required.

Article 250.07 – Seeding Mixtures. Add the following to Table 1:

Seeding Class 4B Modified – Wetland Grass and Forb Mixture

<u>Seeds</u>	Kg/Hectare	(Lb/Acre)
Oats, Spring	30.0	(25.0)
Redtop	30.0	(25.0)
Panicum virgatum (Switch Grass)	0.5	(0.5)
Scirpus fluviatilis (River Bulrush)	1.0	(1.0)
Scirpus acutus (Hardstemmed Bulrush)	1.0	(1.0)
Asclepias incarnata (Swamp Milkweed)	0.5	(0.5)
Helenium autumnale (Autumn Sneezeweed)	0.5	(0.5)
Vernonia fasciculate (Ironweed)	0.5	(0.5)
Vernonia altissima (Tall Ironweed)	0.5	(0.5)
Verbena hastate (Blue Vervain)	0.5	(0.5)
Silphium perfoliatum (Cup Plant)	0.5	(0.5)

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

Article 250.09 – Add Seeding, Class 4B Modified

Article 250.10 – Add Seeding, Class 4B Modified

Posted: 09/16/02

Revised and Reposted: 04/10/03

Provided by IDOT.

SUPPLEMENTAL WATERING

Scope. This work will include watering turf, trees shrubs and perennial plants at the rates specified and as directed by the Engineer

Watering must be completed in a timely manner. When the Engineer directs the Contractor to do supplemental watering, the Contractor must begin the watering operation within 24 hours and must apply a minimum of 10 units of water per day until the watering directed is complete. Damage to plant material that is a result of the Contractor's failure to water in a timely way must be repaired or replaced at the Contractor's expense.

Source of Water. The Contractor shall notify the Engineer of the source of water used and provide written certification that the water does not contain chemicals harmful to plant growth.

Rate of Application. The normal rates of application for watering are as follows. The Engineer will adjust these rates as needed depending upon weather conditions.

Turf and Perennial Plants: 3 gallons per square foot (122 liters per square meter)

Trees: 10 gallons per tree (38 liters per tree)
Shrubs: 3 gallons per shrub (12 liters per shrub)
Seedlings: 2 gallons per seedling (8 liters per seedling)

Ornamental Grasses: 2 gallons per square foot (122 liters per square meter)
Groundcovers and Vines: 2 gallons per square foot (122 liters per square meter)

Method of Application. A spray nozzle that does not damage small plants must be used when watering perennial plants or turf. Water shall be applied at the base of the plant to kept as much water as possible off plant leaves. An open hose may be used to water trees, shrubs and seedlings if mulch and soil are not displaced by watering. The Contractor must supply metering equipment as needed to assure the specified application rate of water.

Method of Measurement. Supplemental watering will be measured in units of 1000 gallons (3785 liters) of water applied as directed.

Basis of Payment. This work will be paid for at the contract unit price per unit of SUPPLEMENTAL WATERING, measured as specified. Payment will include the cost of all water, equipment and labor needed to complete the work as specified.

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

TEMPORARY FENCE, SPECIAL

<u>Description</u>: This item shall consist of the construction, maintenance, and removal of temporary fence at locations shown on the plans and as designated by the Engineer where existing fence, concrete barrier, or other existing access control is to be removed and where proposed fence or other access control will not be constructed until at a later date. The temporary fence shall be constructed, maintained, and removed in accordance with the applicable portions of Section 201.05(a) of the Standard Specification, and as directed by the Engineer.

Method of Measurement: This work will be measured for payment in meters (feet) in place.

<u>Basis of Payment:</u> This work will be paid for at the contract unit price per meter for TEMPORARY FENCE, SPECIAL which price shall be payment in full for all labor, equipment and materials necessary to complete the work as specified herein.

TEMPORARY PAVEMENT

Description: This work shall consist of constructing a temporary pavement at the locations shown on the plans or as directed by the engineer.

The contractor shall use either portland cement concrete as outlined in Section 353 and 354 or bituminous concrete according to Section 355, 356, 406, and the special provisions for; Bituminous Base Course/Widening Superpave, Bituminous Concrete Surface Course, and Superpave Bituminous Concrete Mixtures. The thickness of the Temporary Pavement shall be as described in the plans. The contractor shall have the option of constructing either material type if both portland cement concrete and bituminous concrete are shown in the plans.

Articles 355.10 and 406.21 shall not apply.

The removal of the Temporary Pavement shall conform to Section 440 of the Standard Specification.

Method of Measurement: Temporary pavement will be measured in place and the area computed in square meters (square yards).

Basis of Payment: This work will be paid for at the contract unit price per square meter (square yard) for TEMPORARY PAVEMENT.

Removal of temporary pavement will be paid for at the contract unit price per square meter (square yard) for PAVEMENT REMOVAL.

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

WEED CONTROL, TEASEL

Effective: March 1, 2002 Revised:

<u>Description</u>: This work shall consist of the application of a broadleaf herbicide (Transline or equal) along highway roadsides for control of teasel and thistle prior to beginning any clearing or earthwork operations.

Materials: The broadleaf herbicide (Transline or equal) shall have the following formulation:

Active Ingredient:

Clopyralid: 3,6-dichloro-2pyridinecarboxylic acid,

Monoethanolamine salt 40.9% Inert Ingredients: 59.1%

Total – 100.0%

The Contractor shall submit a certificate, including the following, prior to starting work:

- 1. The chemical names of the compound and the percentage by weight of the ingredients which must match the above specified information.
- 2. A statement that the material is in a solution which will form a satisfactory emulsion for use when diluted with water for normal spraying conditions.
- 3. A statement that the Transline or equal, when mixed with water, will be completely soluble and dispersible and remain in suspension with continuous agitation.
- 4. A statement describing the products proposed for use when the manufacturer of Transline or equal requires that surfactants, drift control agents, or other additives be used with the product. These tank mix additives shall be used as specified by the manufacturer. Required additives will not be paid for separately.

All material shall be brought to the spray area in the original, unopened containers supplied by the manufacturer.

Application Rate: The Transline or equal broadleaf herbicide shall be applied at the rate of 1.2 liters per hectare.

One-half (0.5) liter of Transline or equal formulation shall be diluted with a minimum of one hundred and fifty (150) liters of water and applied as a mixture. Water for dilution of the mixture will not be paid for separately.

<u>Method of Measurement</u>. Weed Control, Teasel will be measured for payment in liters of undiluted Transline or equal as specified. The liters for payment will be determined based on the liters specified on the label attached to the original container supplied by the manufacturer.

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

Basis of Payment. Weed Control, Teasel will be paid for at the contract unit price per liter for **WEED CONTROL**, **TEASEL**. Water for dilution of the mixture and additives required for application will not be paid for as separate items, but the costs shall be considered as included in the contract price for Weed Control, Teasel, and no additional compensation will be allowed.

Posted: 4/25/02 Provided by: IDOT

DRAINAGE & UTILITIES 915 MM Prestressed Concrete Lined Cylinder Water Main

Description. All concrete pressure pipe furnished under this specification shall be 915 mm prestressed concrete lined cylinder pipe, manufactured in accordance with the AWWA Standard C301 for Prestressed Concrete Pressure Pipe, Steel Cylinder Pipe, for Water and Other Liquids and designed in accordance with the AWWA C304 Standard for the Design of Prestressed Concrete Cylinder Pipe. The pipe shall be furnished complete with gaskets, grout bands, and lubricant as required for proper installation and completion of the line.

Pipe shall be designed for an internal working pressure of 76kg/cm2 (100 psi), a surge pressure allowance of 40 percent of the internal working pressure, and an earth cover as shown on the plans with an AASHTO HS-20 truck live load, all in accordance with the AWWA Standard C304 for Design of Prestressed Concrete Cylinder Pipe.

The external loading shall be based on a soil density of 120 pounds per cubic foot and a bedding type R-3. In addition, the pipe and any restraint system shall be suitable for a field test to a pressure equal to 120 percent of the internal working pressure.

Materials. All specials and fittings required for bends, branches, closures and connections shall be capable of withstanding the pressures and loads as described above. Fittings and specials shall be as described in AWWA C301. Outlets and other connections shall be capable of withstanding the pressures and loads as described above and shall be suitably reinforced. Long radius curves or small angular changes in the pipeline can be formed by deflecting joints of straight pipe or by using pipe sections with one end beveled not more than 4 ½ degrees to the axis of the pipe. Flange outlets with blind flange covers shall be furnished complete with flange gaskets, nuts, and bolts. The pipe supplier shall furnish all accessories needed when restrained joints are required.

Markings-Each standard pipe shall be marked to designate its strength classification. Bevel pipe and elbows shall be marked to indicate the point of maximum length. Each fitting or special shall be sufficiently marked to indicate its position in the pipeline. Pipe sections with steel cylinders thicker than standard shall also be clearly marked.

Submittals. The pipe supplier shall make available to the contractor and or the engineer basic design data on the prestressed pipe and shop drawings of the specials and fittings. The supplier will also make available to the contractor a pipe installation schedule indicating the sequence for installing pipe, fittings, and specials, as well as the elevations and stationing of the line at key points such as outlets, bends, and changes in grade.

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

Restrained Joints. As shown on the plans, pipe joints shall be mechanically restrained (harnessed) near bends, tees, bulkheads, wyes, and valves for the distances shown. The pipe manufacturer shall perform the restrained joint calculations and shall submit these calculations to the Engineer for review and approval.

The maximum longitudinal stress in the steel cylinder of harnessed pipe sections shall not exceed 949kg/cm² (13,500 psi) based on the internal working pressure or 1195 kg/cm² (17,000 psi) based on the test pressure and the deflection angle. The steel cylinder thickness in pipe sections between the location of the maximum thrust force and the end of the harnessed section can be prorated on the basis of zero longitudinal thrust at the end of the harnessed section.

The only two acceptable types of harnessed or restrained joints are the harness clamp and Snap Ring® types of flexible restrained joints.

The clamp type consists of two semicircular steel clamps which fit over steel lugs that are factory welded or rolled into the steel bell and spigot sections. The semicircular clamps are drawn together by bolts at the springline on both sides of the pipe to form a flexible restrained joint consists of a split steel ring which is recessed in the steel bell section of the pipe until the joint is made. Once the joint is made, the split steel ring is drawn down into position to form a lock between the bell and spigot by tightening a single steel bolt. The split steel ring, when tightened down, will provide a flexible restrained joint that will transmit longitudinal thrusts across the joint. Both joint types shall be encased in grout after the joint has been completed using special grout bands supplied by the pipe manufacturer.

All restrained joints required as shown on the plans shall not be paid for separately but shall be considered included in the unit price per METER of 915 MM PRESTRESSED CONCRETE CYLINDER WATER MAIN.

Pipe Installation. The pipe shall, at all times, be handled with equipment designed to prevent damage to the joints, or the inside or outside surfaces of the pipe. The bottom of the trench shall be excavated to proper line and grade, shall be free of rocks, and shall provide a uniform bearing for the full length of the pipe barrel. A suitable excavation should be made at each end of the pipe to allow for the larger bell and to permit installation of the grout band. Both the bell and spigot of the pipe sections to be joined shall be cleaned just prior to joining. A thin layer of the lubricant supplied by the pipe manufacturer shall be applied to the surfaces of the bell, spigot, and gasket. After lubrication, the gasket shall be installed in the spigot groove.

The stretch in the gasket should be equalized by inserting a smooth rod under the gasket and moving the rod completely around the full circumference of the spigot. All safety procedures for installation and testing operations shall be followed as required by federal, state, and local regulations.

Making the Joint. During joint make-up, the pipe being lowered into the trench should be supported so the jointing effort is a straight pull-in motion. The jointing effort can be aided with com-alongs, winches, dead man, or backhoe. The position of the gasket should be checked with a feeler gauge as supplied by the pipe manufacturer. If the gasket is not in place, the joint must be taken apart and re-laid using a new gasket. When the gasket is found to be in the proper position with the feeler gauge, the joint can be finished as described below. When a joint opening is needed to make a grade or alignment adjustment, the joint should be laid home first, then opened as required on one side. All joint openings must be within the recommended limits of the pipe supplier.

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

Finishing the Joint. A grout band shall be strapped to the outside of the completed joint so that it encompasses the external joint recess. A grout consisting of one part Portland cement, three parts sand, and sufficient water shall be mixed to produce a grout free of lumps and with a consistency of heavy cream. The grout shall be poured into the opening at the tip of the grout band so that it completely fills the external joint recess. The grout should be rodded or puddle to ensure complete filling of the joint recess. A stiffer mix can be used to trowel over the opening at the top of the grout band. The interior joint recess does no require mortaring if the joint rings have been zinc metalized to .01016mm (0.004 inches) minimum thickness in the areas that could be exposed to the water inside the pipe.

Backfilling. Backfill material adjacent to the pipe shall be free from rocks, tree stumps, broken pavement, or other solid, unyielding objects. Backfill can be placed with front-end loaders or other equipment, taking care to keep the material uniform on both sides of the pipe in order to prevent shifting of the pipe. Care shall be taken to place backfill material under the haunches of the pipe for the lower one sixth of the pipe circumference. Densification of the backfill material over the pipe shall be in accordance with the restoration requirements at grade. Heavy equipment will not be permitted over the pipe until a cover of at least 0.6 meter is achieved. The cost of backfilling will be paid as TRENCH BACKFILL.

Hydrostatic Test of Completed line. The completed pipeline (or completed sections of pipeline) shall be bulkheaded, filled with water, and pressure tested to 120 percent of the internal working pressure. After the line is filled, and prior to pressure testing, it shall be allowed to soak under low pressure to allow the pipe walls to absorb water and for temperature stabilization. While filling the line, the contractor shall be responsible for properly bleeding off trapped air to avoid adversely affecting the leakage test results.

During the hydrostatic test, the contractor shall use a meter or other device to accurately measure the quantity of water necessary to, maintain the test pressure on the gauge. The line will not be accepted until this measured quantity is less than 10 gallons per inch of diameter per mile of pipe per 24 hours. All visible leaks must be repaired regardless of the measured leakage.

All pipe, fittings, accessories (including any Viton gaskets required), and required bedding shall be paid for at the contract unit price per METER of 915 MM PRESTRESSED CONCRETE CYLINDER WATER MAIN.

Method of Measurement. This work will be measured for payment in meters measured along the centerline of the relocated water main complete in place.

Basis of Payment. This work will be paid for at the contract unit price per Meter for 915 MM Prestressed Concrete Lined Cylinder Water Main of the size specified which price shall be payment in full for all labor, equipment and materials necessary to complete the work as specified herein. No separate payment will be made for fittings or supplies or valves.

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

FITTINGS. PRESTRESSED CONCRETE CYLINDER PIPE

At locations indicated on the plans or as directed by the Engineer, the water main shall be constructed around existing utility structures or other obstacles by use of tees, bends, wyes, valves or other appropriate fittings. The pipe joints shall be mechanically restrained (harnessed) near these bends, tees, bulkheads, wyes, and valves for the appropriate calculated distances.

For the prestressed concrete cylinder pipe, all restrained joints shall be the Snap Ring® type joint or approved equal as determined by the City of Chicago Heights Public Works Department. All joints shall be restrained for the calculated lengths. The lengths shown on the plans are for informational purposes only. Pipe joints shall be mechanically restrained (harnessed) near bends, tees, bulkheads, wyes, and valves for the calculated distances. The pipe manufacturer shall perform the restrained joint calculations and shall submit these calculations to the Engineer for review and approval.

It shall be the Contractor's responsibility to ensure that only the specified sections of curb and gutter are removed, and to use appropriate fittings during the water main construction so additional sections are not damaged. The cost for all fittings shall be considered included in the contract unit price per lineal meter for the water transmission line.

915 MM TEMPORARY PLUG INSTALLED AND REMOVED.

The work consists of the furnishing and installation of a mechanical joint or push on restrained plug. This plug shall be installed at locations as indicated on the plans or as directed by the engineer. This plug shall aid in the necessary pressure testing and chlorination. The contractor shall coordinate this work with the City of Chicago Heights public works department, as the water main cannot be out of service for more than 8 hours. The contractor shall notify Chicago Heights Public Works Department 48 hours prior to shutting off the existing water main.

This work including the cost of all labor and materials necessary to temporarily cap the new water main and then remove the cap when the water main is ready to be connected and placed into service shall be paid for at the contract unit price bid per EACH for 915 mm TEMPORARY PLUG INSTALLED AND REMOVED.

Valves.

All 300 mm and smaller valves shall be East Jordan, Mueller, or approved equal resilient wedge type abiding to AWWA C509 and AWWA C550. All proposed valves larger than 300mm shall be Pratt butterfly type with extension stem and ground level position indicator, or approved equal iron body, rubber seat butterfly valve, Class 150B, counter clockwise to open, conforming to AWWA C504 and approved by the Chicago Heights Director of Public Works for the 915 mm installation or the Lansing Director of Public Works for the 150 mm and 400 mm installation. The cost for each valve shall be included in the appropriate valve vault unit price.

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

COMBINATION AIR RELEASE AND VACUUM RELIEF VALVE IN 1.8M DIAMETER VALVE VAULT.

The air release valve used for the project shall be a 250mm ValMatic 110/45 dual body combination air release and vacuum relief valve, or approved equal as called out on the plans. The valve shall be connected to the 915mm water main with a tee and a 200mm butterfly valve. The cost for all materials and labor required for installing the valve, and all associated appurtenances in the vault will be paid for at the contract unit price per EACH for a COMBINATION AIR RELEASE VALVE AND VACUUM RELIEF VALVE IN a 1.8m DIAMETER VALVE VAULT, FLAT TOP ROOF, TYPE 1 FRAME, CLOSED LID.

FLUSHING STATION

This work shall consist of the installation of the flushing station as indicated on the detail sheet and on the plans. The flushing station shall be installed with the appropriate fittings and valves as shown in order to aid in the flushing the chlorine water out after chlorination. The cost for this work will be paid for at the contract unit price per EACH for FLUSHING STATION.

915MM DIAMETER BUTTERFLY VALVE IN 2.1 M DIAMETER VALVE VAULT

Valve vaults shall be installed at the locations indicated in the plans or as directed by the Engineer. Valves shall be centered directly under the vault lid opening unless otherwise approved by the Engineer. All vaults shall be precast concrete structures with a flat roof, and be 2.1 meters in diameter. All vaults shall be provided with a heavy duty Type 1 frame and closed lid. The lid shall have "WATER" cast in the lid.

Valve vault construction shall be as specified on the detail drawings shown in the plans. The cost for all materials and labor required for installing the appropriate valve, and all associated appurtenances will be paid for at the contract unit price per EACH for 915mm DIAMETER BUTTERFLY VALVE IN 2.1m DIAMETER VALVE VAULT, FLAT TOP ROOF, TYPE 1 FRAME, CLOSED LID.

1400MM STEEL SLEEVE- OPEN CUT.

This work shall consist of furnishing spiral welded, steel casing of the thickness listed in the table below and of the outer diameter specified on the plans or as directed by the Engineer. The sleeve shall meet ASTM A139 and ANSI/AWWA C200, Grade B, minimum yield strength of 2461 kg/cm² (35,000 psi). Sleeves shall extend at least 3 meters (10 feet) beyond the outer edge of the existing pavement or sewer pipe, as indicated in the detail drawings, unless otherwise approved by the Engineer. All work shall be done in accordance with Section 552 of the Standard Specifications.

After installation of the steel sleeve is completed, the proposed water main shall be constructed in place within the sleeve. The water main shall be inserted and centered by use of model CCS stainless steel casing spacers as manufactured by Cascade Waterworks Mfg. Co. of Yorkville, IL or approved equal at a maximum spacing of 3 meters (10 feet). Casing spacers shall be bolt on style with a two-piece shell made from T-304 stainless steel of a minimum 14-gauge

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

thickness. Each shell section shall have bolt flanges formed with ribs for added strength. Each connecting flange shall have a minimum of three 5/16" T-304 bolts. The shell shall be lined with a ribbed PVC extrusion with a retaining section that overlaps the edge of the shell and prevents slippage. Bearing surfaces (runners) made from UHMW polymer with a static coefficient of friction of 0.11-0.13 shall be attached to support structures (risers) at appropriate positions to properly support the carrier within the casing and to ease installation. The runners shall be attached mechanically by T-304 threaded fasteners inserted through the punched riser section and TIG welded for strength. Risers shall be made of T-304 14 gauge stainless steel. All risers over 51 mm (two inches (2")) in height shall be reinforced. Risers shall be MIG welded to the shell. All metal surfaces shall be fully passivated. The ends of the sleeve shall be sealed using a method approved by the Engineer.

The cost for casing spacers, filling of the annular space (if required), and furnishing and installing the steel sleeve shall be incidental to the contract unit price for the steel sleeve. Unless otherwise shown on the plans, steel sleeves [casings] shall be of the size and thickness shown in the table below:

Standard Sizes of Steel Sleeves Used As Casings*

Carrier Pipe ID in mm Casing Wall Thickness in mm Casing Outside Diameter in mm

915mm 13mm 1400mm *Adapted from City of Chicago, IL Water Department Standard Specifications

The cost of furnishing and installation of the steel sleeve, and all incidental work necessary for its installation, including casing spacers, will be paid for at the contract unit price per METER for 1400mm DIAMETER STEEL SLEEVE, 13 mm WALL THICKNESS, OPEN CUT. The cost for water main constructed within the sleeves will be paid for at its unit price.

1400MM STEEL SLEEVE- AUGUR

The Contractor is advised to review the site and familiarize himself with the soil conditions prior to finalizing his bid for this portion of the work. No additional compensation shall be allowed for changes in the construction method due to ground conditions that may exist at the time of construction. All work shall be performed in accordance with Section 552 of the Standard Specification except as described in the following specifications and the Steel Sleeve Specification contained herein.

This work shall consist of auguring a steel sleeve at the location and at the line and grades provided on the plans or as where directed by the Engineer. The Contractor shall field verify the elevations and locations of any and all utilities that may cross beneath or over the proposed augur prior to ordering structures [manholes] or beginning the augur operation so as to not damage the existing utilities during augur operations. No additional compensation shall be given for any modifications required to be made to the proposed water transmission line design (including but not limited to re-ordering/restocking structures) or for any delay time incurred due to a difference in assumed and actual elevations of the existing utilities.

The Contractor shall take all necessary precautions to prevent the undermining of roadways, structures, embankments, or property including the utilization of trench boxes, sheeting, etc. to properly maintain the augur and receiving pit excavations such that underlying soils between the pavement edge etc. and augur limits are prevented from entering the excavation. In the event

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

that settlement or any other damage occurs to adjacent roadways, property or structures between the time the auguring is completed and the end of the contract bond guaranty period, the Contractor shall be fully responsible for any repairs deemed necessary by the Engineer.

The cost of furnishing and installation of the steel sleeve, and all incidental work necessary for its installation, including casing spacers, will be paid for at the contract unit price per METER for 1400mm DIAMETER STEEL SLEEVE, 13mm WALL THICKNESS-AUGURED. The cost for water main constructed within the sleeves will be paid for at its unit price.

AUGUR PIT

This work shall consist of excavation, shoring, backfilling, dewatering (if necessary) and stabilization of the auguring pit to allow auguring of the steel casing under Burnham Avenue. After the installation of the sleeve and pipe is complete, the jacking pit shall be back filled with CA-6. The cost for the excavation, furnishing, placing, removing and disposing of excess aggregate, and backfilling shall be paid for at the contract unit price per EACH for AUGUR PIT.

CONNECTION TO EXISTING WATER MAIN

This work shall include the removal of the temporary plug and the connection to the existing water main with the appropriate fittings and pipe length once the pressure test and chlorination are completed and satisfactory. See the detail drawings for a schematic of the connection. This work shall be paid for at the contract unit price per EACH for CONNECTION TO EXISTING WATER MAIN.

FACILITY ADJUSTMENTS/REMOVAL AND REPLACEMENTS

This item shall include the adjustments of any sanitary sewer and water main services, as well as any water main and sewer lines, encountered by the construction of the sewer and water main. The Contractor shall make every attempt possible to avoid these facilities, and if in the opinion of the Engineer, the facilities are damaged due to carelessness by the Contractor, no compensation will be made for the replacement of same.

If adjustment of certain services is necessary, the work shall be done in a workmanlike fashion, minimizing the downtime of the residents' services, and shall include all necessary labor and materials to properly complete the adjustment. Work on these items shall be paid for at the unit price bid EACH for ADJUSTING WATER SERVICE LINES and for EACH for SANITARY SEWER SERVICE REMOVAL AND REPLACEMENT as well as per METER for ADJUSTING WATER MAIN 150mm, ADJUSTING WATER MAIN 200mm and ADJUSTING WATER MAIN 400mm with the costs of each item as stated in the bidding schedule which price shall include the cost of all pipe, joint materials, trench backfill, labor and equipment needed to complete the work as stated.

Ductile iron sewer pipe shall be used for the replacement of any sanitary sewer house services.

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

915MM CUT AND PLUG INSTALLED

This work consists of the furnishing and installation of a mechanical joint or push on restrained plug. This plug shall be installed at locations as indicated on the plans or as directed by the engineer. The existing water main shall not be plugged until the new water main is operational including all necessary testing and chlorination. The contractor shall coordinate this work with the City of Chicago Heights public works department, as the water main cannot be out of service for more than 8 hours. The contractor shall notify Chicago Heights Public Works Department 48 hours prior to shutting off the existing water main.

This work including the cost of all labor and materials necessary to cap the existing water main shall be paid for at the contract unit price bid per EACH for 915mm CUT AND PLUG INSTALLED.

PRESSURE TEST AND DISINFECTION OF 915MM WATER MAIN

The Contractor shall install the water main as shown on the plans and completely flush and chlorinate said main.

After the pipe has been laid and partly backfilled as specified herein, all newly laid pipe or any valved sections of it shall, unless otherwise expressly specified, be subjected to a hydrostatic pressure equal to 200 psi for a duration of not less than two hours. The basis provisions of AWWA C603 and C600 shall be applicable, if specified.

Before being placed into service, all new mains and repaired portions of, or extensions to existing mains shall be chlorinated so that the initial chlorine residual is not less than 50 mg/1 and that a chlorine residual of not less than twenty-five (25 mg/1) remains in the water after standing twenty-four (24) hours in the pipe.

Following chlorination, all treated water shall be thoroughly flushed from the newly laid pipe at its extremity until the replacement water throughout its length shows upon test, chlorine residual of less than 1 mg/1. In the event chlorine is normally used in the source of supply, then the test shall show a residual of not in excess of that carried in the system.

After flushing, water samples collected on two (2) successive days from the treated piping system, as specified by the Engineer, shall show satisfactory bacteriological results. Bacteriological analyses must be performed by a laboratory approved by the Illinois Department of Public Health.

After successful chlorination and pressure testing has occurred, the contractor shall abandon the existing water main by installing caps at the locations indicated in the plans or as directed by the Engineer. This work shall be performed with the assistance of the City of Chicago Heights Public Works Department, performing all appropriate valve closings as necessary. It is our intention that the water main be filled with water from the Village of Lansing fire hydrant in order to flush, pressure test, chlorinate the new main. A meter must be installed to account for all water used during the chlorination. Once an approved chlorination report is received, the connection to the existing water main will be made with the appropriate sized bends. The bends will be swabbed with a chlorine solution prior to making the connection and the pipeline will be flushed prior to entering the reservoir.

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

The Contractor shall be paid at the contract unit price per LSUM for PRESSURE TEST AND DISINFECTION OF 915mm WATER MAIN or per LSUM for PRESSURE TEST AND DISINFECTION OF 400mm WATER MAIN or per LSUM for PRESSURE TEST AND DISINFECTION OF 150mm WATER MAIN.

DUCTILE IRON WATER MAIN CLASS 52 WITH POLYETHYLENE ENCASEMENT

This work shall consist of the construction of 400mm and 150mm ductile iron water main at locations indicated on the plans or as directed by the Engineer. The water main shall be "Ductile Iron," ANSI thickness Class 52, Clow "Super Bell-Tite", "Push-On" Joint, or approved equal, and must meet all applicable requirements of ANSI A21.51 (AWWA C151)[pipe]; ANSI A21.10 (AWWA C110) or AWWA C153; [fittings], ANSI A21.11 (AWWA C111)[joints], and ANSI A21.4 (AWWA C104)[pipe lining] specifications. Alloyed steel bolts shall be used to prevent corrosion. All water mains shall be wrapped in 8-mil thick polyethylene encasement (ANSI/AWWA C105/A21.5) Method B, with pipe and joints wrapped separately.

Measurement shall be made along the centerline of water main installed. The cost for furnishing all labor, materials and equipment necessary for excavation, construction of the new water main, backfilling, all materials and labor required for wrapping the water main will be paid for at the contract unit price per METER for 400mm DIWM, CLASS 52 WITH POLYETHYLENE ENCASEMENT, or 150mm DIWM, CLASS 52 WITH POLYETHYLENE ENCASEMENT.

Mechanical Joint Restraints. All mechanical joint restraints shall be incorporated in the design of a follower gland. The gland shall be manufactured of ductile iron conforming to ASTM A 536. Dimensions of the gland shall be such that it can be used with the standardized mechanical joint bell and tee-head bolts conforming to AWWA C111 and C153.

The restraint mechanism shall consist of numerous individually activated gripping surfaces to maximize restraint capability. The gripping surfaces shall be sedges designed to spread the bearing surfaces on the pipe. Twist-off nuts, sized same as tee-head bolts, shall be used to insure proper actuating of restraining devices. When the nut is sheared off, a standard hex nut shall remain. The mechanical joint restraint device for ductile iron pipe shall have a working pressure of at least 17.5 kg/cm2 (250 psi) with a minimum safety factor of 2. Gasket material identical to that described above shall be utilized at all joints and fittings.

The mechanical joint restraint devices shall be EBAA Iron, Inc. MegaLug 1100 series, Uni-Flange Series 1400, or engineer-approved equal.

Joint restraint for ductile iron pipe within casing shall be Field Lok 350, for Tyton Joint pipe and fittings, TR Flex pipe and fittings, or other engineer-approved equal. Restrained ductile iron pipe shall be rated for 24.6 kg/cm2 (350 psi) in accordance with ANSI/AWWA C111/A21.11 Rubber-Gasket Joints for Ductile Iron Pipe and Fittings.

All design associated with mechanical joint restraints shall be completed by the contractor and his supplier. Design calculations shall be submitted to the Engineer for review and approval prior to the ordering of materials. The cost for designing, furnishing, installing, adjusting, and testing of mechanical joint restraints will not be compensated for separately but shall be considered incidental to the contract.

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

DUCTILE IRON FITTINGS

All fittings shall be made from gray-iron or ductile iron and furnished with mechanical joint ends. All fittings shall have a pressure rating of 17.5 kg/cm2 (250 psi) and shall be wrapped with an 8-mil thick polyethylene material per AWWA Standard C105. At locations indicated on the plans or as directed by the Engineer, the water main shall be constructed around existing utility structures or other obstacles by use of tees, bends or other appropriate fittings. Gasket material identical to that described above shall be utilized at all joints and fittings.

Delivery tickets, which show the breakdown of each fitting including it's, weight must be provided to the Resident Engineer in order to receive payment.

The cost for all fittings, excluding that incidental to the hydrant and tapping sleeve installations and those associated with the capping of the water main, will be paid at the contract unit price per KILOGRAM for DUCTILE IRON FITTINGS.

STEEL SLEEVE- OPEN CUT

This work shall consist of furnishing spiral welded, steel casing of the thickness listed in the table below and of the outer diameter specified on the plans or as directed by the Engineer. The sleeve shall meet ASTM A139 and ANSI/AWWA C200, Grade B, minimum yield strength of 2461 kg/cm2 (35,000 psi). Sleeves shall extend at least 3 meters (10 feet) beyond the outer edge of the existing pavement or sewer pipe, as indicated in the detail drawings, unless otherwise approved by the Engineer. All work shall be done in accordance with Section 552 of the Standard Specifications.

After installation of the steel sleeve is completed, the proposed water main shall be constructed in place within the sleeve. The water main shall be inserted and centered by use of model CCS stainless steel casing spacers as manufactured by Cascade Waterworks Mfg. Co. of Yorkville, IL or approved equal at a maximum spacing of 3 meters (10 feet). Casing spacers shall be bolt on style with a two-piece shell made from T-304 stainless steel of a minimum 14-gauge thickness. Each shell section shall have bolt flanges formed with ribs for added strength. Each connecting flange shall have a minimum of three 5/16" T-304 bolts. The shell shall be lined with a ribbed PVC extrusion with a retaining section that overlaps the edge of the shell and prevents slippage. Bearing surfaces (runners) made from UHMW polymer with a static coefficient of friction of 0.11-0.13 shall be attached to support structures (risers) at appropriate positions to properly support the carrier within the casing and to ease installation. The runners shall be attached mechanically by T-304 threaded fasteners inserted through the punched riser section and TIG welded for strength. Risers shall be made of T-304 14 gauge stainless steel. All risers over 51 mm (two inches (2")) in height shall be reinforced. Risers shall be MIG welded to the shell. All metal surfaces shall be fully passivated. The ends of the sleeve shall be sealed using a method approved by the Engineer.

The cost for casing spacers, filling of the annular space (if required), and furnishing and installing the steel sleeve shall be incidental to the contract unit price for the steel sleeve. Unless otherwise shown on the plans, steel sleeves [casings] shall be of the size and thickness shown in the table below:

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

Standard Sizes of Steel Sleeves Used As Casings*

<u>Carrier Pipe ID in mm</u> <u>Casing Wall Thickness in mm</u> <u>Casing Outside Diameter in mm</u>

400mm 11.9mm 750mm

*Adapted from City of Chicago, IL Water Department Standard Specifications

The cost of furnishing and installation of the steel sleeve, and all incidental work necessary for its installation, including casing spacers, will be paid for at the contract unit price per METER for 750mm DIAMETER STEEL SLEEVE, 11.9mm WALL THICKNESS, OPEN CUT. The cost for water main constructed within the sleeves will be paid for at its unit price.

The cost for each valve shall be included in the appropriate valve vault unit price.

VALVE VAULTS

Valve vaults shall be installed at the locations indicated in the plans or as directed by the Engineer. Valves shall be centered directly under the vault lid opening unless otherwise approved by the Engineer. Valve vaults shall conform to ASTM C478. For valves up to and including 300mm in diameter, valve vaults shall have a 1.2m inside diameter; for pressure connections and valves larger than 300mm in diameter, valve vaults shall have a 1.5m inside diameter.

No more than two (2) precast concrete adjusting rings with 15.25 cm (six (6) inch) maximum height adjustment shall be allowed. Rubber adjusting rings instead of concrete adjusting rings are desired for valve vaults located in pavement areas. All joints between vaults sections shall be sealed with mastic and McWrap or equal shall be used around the outside wall of the vault at the joints.

All vaults shall be provided with a heavy duty Type 1 frame and closed lid. The manhole frame and cover shall be an East Jordan 1022Z3 embossed "WATER".

Corporation stops or other tap shall be installed in the vaults in order to aid in the chlorination and flushing of the main. The taps shall be large enough to provide a velocity of at least .76 meters per second (2.5 feet per second) in the main. Valve vault construction shall be as specified in the detail drawings and as shown in the plans. Measurement for payment shall be per EACH for valve vaults installed, and shall include the appropriate VALVE or TAPPING SLEEVE AND VALVE as called out in the plans and proposal sheet.

400MM BLIND FLANGE CAP

This work consists of the furnishing and installation of mechanical joint or push on restrained plug. These shall be installed on the abandoned water main lines as indicated on the plans. This work, including the cutting and plugging of the existing main and all associated backfill is to be paid for at the contract unit price bid per EACH for 400mm BLIND FLANGE CAP.

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

150MM BLIND FLANGE CAP

This work consists of the furnishing and installation of mechanical joint or push on restrained plug. These shall be installed on the abandoned water main lines as indicated on the plans. This work, including the cutting and plugging of the existing main and all associated backfill is to be paid for at the contract unit price bid per EACH for 150mm BLIND FLANGE CAP.

ABANDON WATER MAIN IN PLACE

At locations indicated on the plans the existing water main to be abandoned shall be cut and capped and abandoned in place. The cost for this work shall be paid for at the contract unit price per LSUM for ABANDON 400 mm WATER MAIN IN PLACE or ABANDON 150 mm WATER MAIN IN PLACE.

ABANDON WATER MAIN AND REMOVE

At locations indicated on the plans the existing water main to be abandoned shall be cut and capped and the appropriate section as marked removed. The cost for this work including pipe excavation, disposal and necessary backfill shall be paid for at the contract unit price per LSUM for WATER MAIN REMOVAL.

ABANDON VALVE ON EXISTING 150MM WATER MAIN

Valves specified on the plans to be abandoned shall be closed and then cut a minimum of 300MM below the existing ground surface and then filled with concrete, sand or other appropriate material. This work will be paid for at the unit price per EACH for ABANDON VALVE ON EXISTING 150mm WATER MAIN.

REMOVE AND SALVAGE BUTTERFLY VALVE

Description. This work shall consist of removing and salvaging existing butterfly valves as directed by the Engineer.

Removal. The Contractor shall remove the existing butterfly valves within the limits of water main removal after the existing water main and the valves are taken out of service. The Contractor shall deliver the valves to the City of Chicago Heights East End Station at 137 East 14th Street, Chicago Heights, Illinois.

Any of the valves and associated hardware having salvage value, as determined by the Engineer, damaged by fault of the Contractor shall be repaired or replaced in kind by the Contractor, at his/her own expense. The Contractor shall dispose of material not suitable for salvage according to Article 202.03 of the Standard Specifications.

Method of Measurement. This work will be measured for payment in units of each.

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

Basis of Payment. This work will be paid for at the contract unit price each for REMOVE AND SALVAGE BUTTERFLY VALVES of the diameter specified, which price shall be payment in full for all labor, equipment and materials necessary to complete the work as specified herein.

WATER MAIN REMOVAL OF THE DIAMETER SPECIFIED

Description: This item shall consist of the complete removal and disposal of water main of the diameter specified along with all valve vaults and other appurtenances. The work shall include excavating, dismantling and transporting the pipe and backfilling the trench. The work shall also include cutting and capping the existing water main as required in the plans and directed by the Engineer.

Removal. Prior to the work the Contract or shall contact the owner and request inspection of the line by the owners representative to assure that lines designated for removal have been abandoned. Existing water mains and appurtenances shall be removed off the right of way and disposed of by the Contractor according to Article 202.03 of the Standard Specifications. The existing water main if

Salvage Items. The City of Chicago Heights will remove and/or modify the Cathodic Protection Test Stations that are in the 915mm (36") water main. The Contractor will be required to remove, store, protect and deliver frames, lids and valves to the City of Chicago Heights. Any salvage items having residual value as determined by the Engineer that were damaged by the Contractor shall be repaired or replaced by the Contractor, at his/her own expense, to the satisfaction of the Engineer.

Backfilling. The excavation shall be filled to the existing natural ground line. The backfill material shall consist of excavated or furnished material of acceptable quality as defined in Article 204 and Article 205.04 of the Standard Specifications. The backfill material shall be deposited in uniform layers not exceeding 250 mm thick (loose measure), and each layer shall be compacted by ramming or tamping with tools approved by the Engineer.

Method of Measurement. Water main removal of the diameter specified will be measured for payment in meters, measured as removed to the nearest meter.

Materials furnished to fill the excavation will not be measured for payment.

Basis of Payment. This work will be paid for at the contract unit price per meter for WATER MAIN REMOVAL and WATER MAIN REMOVAL 915 MM, which price shall include all excavation and backfilling, and removal and disposal of the pipe. With the exception of butterfly valves, the cost of salvage and delivery for the items stated above will be included in the cost of WATER MAIN REMOVAL OF THE DIAMETER SPECIFIED. The cost of removal and salvage of butterfly valves will be paid under a separate item REMOVE AND SALVAGE BUTTERFLY VALVES.

SANITARY MANHOLES WITH BOLT-DOWN WATER-TIGHT FRAME & COVER

Description: This item shall consist of construction of a pre-cast reinforced concrete sanitary manhole, in accordance with the applicable portions of Section 602 of the Standard Specifications, and meeting the material and installation requirements of the latest edition of the "Standard Specifications for Water and Sewer Main Construction in Illinois" and as directed by

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

the Engineer. The frame and lid shall be Neenah Type R-6460 or equivalent and shall be installed in accordance with the "manufacturer's" requirements.

Method of Measurement. This work will be measured for payment in units of each manhole complete in place.

Basis of Payment. This work will be paid for at the contract unit price per each for MANHOLES, SANITARY, 1.5M DIAMETER, 1.8-2.4M DEPTH, BOLT DOWN, WATER TIGHT FRAME & COVER, or MANHOLES, SANITARY, 1.5M DIAMETER, 3.0-3.6M DEPTH, BOLT DOWN, WATER TIGHT FRAME & COVER which price shall be payment in full for all labor, equipment and materials necessary to complete the work as specified herein. Manholes of less than 1.8m depth shall be paid for as MANHOLES, SANITARY, 1.8-2.4M DEPTH, BOLT DOWN, WATER TIGHT FRAME & COVER.

BACKFILLING STORM SEWER UNDER ROADWAY

Effective: September 30, 1985 Revised: July 2, 1994

For storm sewer constructed under the roadway, backfilling methods two and three authorized under the provisions of Article 550.07 will not be allowed.

CLEANING EXISTING DRAINAGE STRUCTURES

Effective: September 30, 1985 November 1, 1996

All existing storm sewers, pipe culverts, manholes, catch basins and inlets shall be considered as drainage structures insofar as the interpretation of this Special Provision is concerned. When specified for payment, the location of drainage structures to be cleaned will be shown on the plans.

All existing drainage structures which are to be adjusted or reconstructed shall be cleaned in accordance with Article 602.14 of the Standard Specifications. This work will be paid for in accordance with Article 602.15 of the Standard Specifications.

All other existing drainage structures which are specified to be cleaned on the plans will be cleaned in accordance with Article 602.14 of the Standard Specifications. This work will be paid for at the contract unit price each for DRAINAGE STRUCTURES TO BE CLEANED, and at the contract unit price per meter (foot) for STORM SEWERS TO BE CLEANED.

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

CULVERT TO BE CLEANED

This work consists of removing dirt, silt and debris from the existing box culvert for the full width and 10 meters inward from each end opening or as directed by the Engineer.

Included in this item is the removal and disposal of all material from the box culvert to a site off of the State right-of-way as approved by the Engineer.

Any damage to the State property due to the Contractor's operations shall be repaired to the Engineer's satisfaction. No additional compensation will be provided for this work.

Method of Measurement. Culvert to be cleaned will be measured for payment in place per each.

Basis of Payment: This work will be paid for at the contract unit price each for CULVERT TO BE CLEANED, which price shall include all equipment, labor and disposal costs required to satisfactorily clean the culvert as approved by the Engineer.

Posted: 4/25/02 Revised: 08/25/03

DRAINAGE STRUCTURES, TYPE 2 SPECIAL WITH TWO TYPE 22 FRAME AND GRATES

Effective: March 8, 2004 Revised:

Description: This item shall consist of constructing drainage structures, type 2 special with two type 22 frame and grates as shown on the plans and District One Detail CS-9, in accordance with the applicable portions of Sections 602 and 604 of the Standard Specification.

If required by the Engineer, the grates shall be temporarily sealed with a metal plate or other means such that debris and fill material will not enter the structure if it becomes buried during construction.

Basis of Payment. This work will be paid for at the contract unit price each for DRAINAGE STRUCTURES, TYPE 2 SPECIAL WITH TWO TYPE 22 FRAME AND GRATES which price shall be payment in full for all labor, sealing of grate, equipment and materials necessary to complete the work as specified herein.

FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)

Effective: August 1, 1995 Revised: November 1, 1996

Add the following to Article 603.09 of the Standard Specifications:

"Removing frames and lids on drainage and utility structures in the pavement prior to milling, and adjusting to final grade prior to placing the surface course, will be paid for at the contract unit price each for FRAMES AND LIDS TO BE ADJUSTED (SPECIAL).

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

This work will not be paid for when drainage and utility structures are specified for payment as structure reconstruction."

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MANHOLES, SANITARY WITH TYPE 1 FRAME, CLOSED LID

Description: This item shall consist of manholes, sanitary with type 1 frame, closed lid at locations shown on the plans, in accordance with the applicable portions of Sections 602 of the Standard Specification, the latest edition of the "Standard Specifications for Water and Sewer Main Construction in Illinois", and as directed by the Engineer. The item will be based on Type A Manhole, of the diameter specified, as shown on Highway Standard 602401, except that all applicable provisions herein shall apply.

When a Sanitary District, Municipality or Water District has jurisdiction of a sanitary sewer or water service line, the work and materials shall be as prescribed by the Sanitary District, Municipality or Water District and shall meet the approval of its Engineer.

Basis of Payment. This work will be paid for at the contract unit price each for MANHOLES, of the diameter specified, SANITARY WITH TYPE 1 FRAME, CLOSED LID, which price shall be payment in full for all excavation, labor, equipment and materials necessary to complete the work as specified herein, including necessary pipe for connections and disposal of surplus materials.

Posted: 06/20/03 Provided by: TENG

PROPOSED STORM SEWER CONNECTION TO EXISTING MANHOLE

This item shall consist of the construction of proposed storm sewer connection to existing manholes at locations shown on the plans and as directed by the Engineer.

The new opening in the existing manhole shall be made in a manner to minimize any stuctual damage to the manhole. Any damage to the manhole shall be repaired to the Engineers's satisfaction at no additional cost to the department.

The storm sewer connection to the existing manhole shall be sealed with class SI concrete or brick and suitable mortar to the satisfaction of the engineer.

Method of Measurement. PROPOSED STORM SEWER CONNECTION TO EXISTING MANHOLE will be measured for payment on a per each basis.

Basis of Payment. This work will be paid for at the contract unit price per each for PROPOSED STORM SEWER CONNECTION TO EXISTING MANHOLE which price shall be payment in full for all labor, equipment and materials necessary to complete the work as herein specified.

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

STORM SEWERS, RUBBER GASKET

This item shall consist of the construction of storm sewers, of the Type and Size specified at locations shown on the plans, in accordance with the applicable portions of Section 550 of the Standard Specification, and as directed by the Engineer.

The storm sewer shall have pipe materials as specified in Section 550 with a bell and spigot coupling and sealed with a preformed flexible compression gasket that will remain tight under all conditions and shall conform to the requirements of Section 1056.01 pf the Standard Specifications. Concrete pipe joints shall conform to ASTM C 361 or C 433 for flexible gasket material.

Method of Measurement. This work will be measured for payment in place in meters (feet), according to Section 550.08 of the Standard Specification.

Basis of Payment. This work will be paid for at the contract unit price per meters (feet) for STORM SEWERS, RUBBER GASKET, of the Type and Size Specified which shall be payment in full for all labor, equipment and materials necessary to complete the work as specified herein.

STORM SEWER, DUCTILE IRON PIPE, TYPE 1

Effective: March 8, 2004 Revised:

Submitted by: Teng & Associates, Inc.

Description: This item shall consist of the construction of storm sewers of ductile iron pipe at locations shown on the plans, in accordance with the applicable portions of Section 550 of the Standard Specification, the requirements herein specified, and as directed by the Engineer.

Construction will consist of installing the sewer in open trench cuts as shown on the plans.

Backfill compaction shall be achieved using Method 1 only, as described in Article 550.07 of the Standard Specifications.

This item shall be constructed of ductile iron pipe and fittings conforming to ANSI A21.51 (AWWA C151), Class 52 Specification, tar (seal) coated and/or cement lined per ANSI A 21.4 (AWWA C104), with mechanical or rubber ring (slip seal or push on) joints.

All sewer connections, including connections to existing structures, and connections to existing sewers, shall be considered incidental to the applicable storm sewer item.

Method of Measurement. This work will be measured for payment in meters.

Basis of Payment. This work will be paid for at the contract unit price per meter for STORM SEWER, DUCTILE IRON PIPE, TYPE 1 200MM and STORM SEWER, DUCTILE IRON PIPE, TYPE 1 300MM, which price shall be payment in full for all labor, excavation, sheeting, shoring, equipment and materials necessary to complete the work as specified herein. Trench backfill will be paid for according to Article 208.04 of the Standard Specification.

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

STORM SEWER ADJACENT TO OR CROSSING WATER MAIN

Effective: February 1, 1996 Revised: March 31, 1998

This work consists of constructing storm sewer of the specified diameter adjacent to or crossing water main, at the locations shown on the plans, meeting the material and installation requirements of the latest edition of the "Standard Specifications for Water and Sewer Main Construction in Illinois", and the applicable portions of Section 550 of the Standard Specifications.

Pipe materials shall meet the requirements of Sections 40 and 41-2.01 of the "Standard Specifications for Water and Sewer Main Construction in Illinois", except PVC pipe will not be allowed. Ductile-Iron pipe shall meet the minimum requirements for Thickness Class 50.

Encasing of standard type storm sewer, in accordance with the details for "Water and Sewer Separation Requirements (Vertical Separation)", (DIV. V/STANDARD DRAWINGS) in the "Standard Specifications for Water and Sewer Main Construction in Illinois", may be used for storm sewers crossing water mains.

Basis of Payment: This work will be paid for in accordance with Article 550.09 of the Standard Specifications, except the pay item shall be STORM SEWER (WATER MAIN REQUIREMENTS), of the diameter specified, and shall include all materials, labor, equipment, concrete collars and encasing pipe with seals.

TEMPORARY STORM SEWER PLUGS

Effective: March 8, 2004 Revised:

Submitted by: Teng & Associates, Inc.

Description: This item shall consist of constructing temporary storm sewer plugs of brick and mortar as shown on the plans, in accordance with the applicable portions of Section 550 of the Standard Specification, and as directed by the Engineer. Materials shall meet the applicable requirements of 1001, 1002, 1003.02, and 1041of the Standard Specification.

Basis of Payment. This work will be paid for at the contract unit price each for TEMPORARY STORM SEWER PLUGS, which price shall be payment in full for all labor, equipment, excavation, backfill and materials necessary to complete the work as specified herein.

ADJUSTING WATER MAIN

Description. This work shall consist of adjusting water service lines, where required by the construction of the improvement in accordance with Article 562 and 563 of the Standard Specifications. The water main shall be constructed around existing and proposed storm sewer and utility structures or other obstacles by use of tees, bends or other appropriate fittings. The Contractor shall review the existing condition with the Village of Lansing and prepare Shop Drawings for review by the Village prior to undertaking the adjustment.

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

Materials.

Pipe: The water main shall be "Ductile Iron," ANSI thickness Class 52, Clow "Super Bell-Tite", "Push-On" Joint, or approved equal, and must meet all applicable requirements of ANSI A21.51-1976 (AWWA C151-76), ANSI A21.11 (AWWA C111), and ANSI A21.4 (AWWA C104) specifications.

Valves: All proposed valves shall be Mueller or approved equal resilient wedge type abiding to AWWA C509 and AWWA C550. All gate valves shall be left turn open.

Fittings: All fittings shall be of ductile iron material with "Megalug" retainer glands or approved equal as determined by the Village of Lansing Public Works Department.

Supplies: Alloyed steel bolts shall be used to prevent corrosion. Brass wedges are also required for all push on joint pipe. All water mains shall be wrapped in 8-mil thick polyethylene encasement, Method B, with pipe and joints wrapped separately.

Method of Measurement. This work will be measured for payment in meters measured along the centerline of the relocated water main complete in place.

Basis of Payment. This work will be paid for at the contract unit price per Meter for ADJUSTING WATER MAIN of the size specified which price shall be payment in full for all labor, equipment and materials necessary to complete the work as specified herein. No separate payment will be made for fittings or supplies or valves.

STRUCTURAL

Noise Abatement Wall Anchor Rod Assembly

Description. This item shall consist of fabricating, furnishing and installing noise abatement wall anchor rod assemblies for retaining wall or other roadway structure in accordance with applicable portions of Section 505 of the Standard Specifications as shown on the plans or as directed by the Engineer.

General The Contractor shall furnish and install anchor rod assemblies for noise abatement walls according to Article 1006.09 of the standard specifications and as modified elsewhere in these special provisions.

Materials. Anchor rods shall be in accordance with AASHTO specifications as shown in the plans.

Method Of Measurement. Noise Abatement Wall Anchor Rod Assembly shall be counted, per each assembly complete.

Basis Of Payment. This item shall be paid at the contract unit price each for **NOISE ABATEMENT WALL ANCHOR ROD ASSEMBLY**, which shall be payment in full for the furnishing, installing, materials, identification and delivery to the jobsite.

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

OVERHEAD SIGN STRUCTURE-SPAN, ANCHOR ROD ASSEMBLY

Description. This item shall consist of fabricating, furnishing and installing overhead sign structure-span anchor rod assemblies for retaining wall or other roadway structure in accordance with Articles 733.04, 733.07 and 734.03 of the Standard Specifications as shown on the plans or directed by the Engineer.

Materials. Materials shall be according to the following Articles of Section 1000 - Materials

ItemArticle/Section(a) Anchor Rods1094.03

CONSTRUCTION REQUIREMENTS

General The Contractor shall furnish and install anchor rod assemblies for overhead sign structure-span according to Article 1094.03 of the standard specifications and as modified elsewhere in these special provisions.

Method Of Measurement. Overhead Sign Structure – Span Anchor Rod Assembly shall be counted, per each assembly complete.

Basis Of Payment. This item shall be paid at the contract unit price each for **OVERHEAD SIGN STRUCTURE-SPAN, ANCHOR ROD ASSEMBLY**, which shall be payment in full for the furnishing, installing, materials, identification and delivery to the jobsite.

PIPE UNDERDRAINS FOR STRUCTURES

Effective: May 17, 2000 Revised: July 18, 2003

<u>Description</u>. This work shall consist of furnishing and installing the perforated drain pipe, geotechnical fabric and/or impervious geomembrane, and coarse aggregate as shown on the plans, as specified herein, and as directed by the Engineer.

Materials. Materials shall meet the requirements as set forth below:

Pipe underdrains shall consist of perforated drain pipe in accordance with Article 601.02 of the Standard Specifications. Outlet pipes shall not be perforated.

The coarse aggregate shall have a gradation of CA5 or CA7 in accordance with Section 1004 of the Standard Specifications.

The fabric surrounding the coarse aggregate shall consist of Geotechnical Fabric for French Drains in accordance with Article 1080.05 of the Standard Specifications.

The impervious geomembrane surrounding the coarse aggregate shall be a minimum 20 mil in thickness and shall be manufactured from polypropylene, polyethylene, or polyvinyl chloride material.

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

<u>Construction Requirements</u>. All work shall be in accordance with the applicable requirements of Section 601 of the Standard Specifications except as modified below.

The pipe underdrains shall be installed to the lines and gradients as shown on the plans. The drain pipe shall be situated within an area of coarse aggregate as shown on the plans. The coarse aggregate shall be wrapped completely in geotechnical fabric and/or impervious geomembrane as shown on the plans.

<u>Method of Measurement</u>. Pipe underdrains for structures shall be measured for payment in meters (feet), in place. Measurement shall be along the centerline of the pipe underdrains. All connectors, outlet pipes, elbows, an all other miscellaneous items shall be included in the measurement.

<u>Basis of Payment</u>. This work will be paid for at the contract unit price per meter (foot) for PIPE UNDERDRAINS FOR STRUCTURES of the diameter specified, installed and measured as specified herein. Furnishing and installation of the coarse aggregate, geotechnical fabric, impervious geomembrane, forming holes in structural elements and any excavation required, will not be paid for separately, but shall be included in the cost of the pipe underdrains for structures.

RUSTICATION FINISH FOR RETAINING WALLS

Effective: May 1, 1990 Revised: November 1, 1996

This work consists of providing a rustication finish on retaining walls in accordance with the details shown in the plans and the Special Provisions.

Forms shall be constructed so that the completed concrete structures conform to the shape, lines and dimensions of the members as shown on the plans. Forms shall be properly braced or tied together to maintain position and shape. Forms shall be made sufficiently tight to prevent leakage of mortar.

Formliners shall be used to obtain the rustication finish on the retaining walls. Formwork shall have the strength and stability to ensure finished concrete dimensions within the tolerances specified herein. The quality of the formwork shall be maintained throughout the entire project.

Variations in dimensions for the wall sections with a rustication finish shall be within the following tolerances: the width and depth of rustication joints shall be within 3 mm (1/8 inch) \pm , the location of the rustication joints shall be within 13 mm (1/2 inch) \pm , the maximum variation of a joint from a straight line shall be 6 mm (1/4 inch) \pm in 3 meters (10 feet).

The Contractor shall submit proposed construction procedures for the rustication finish on the outside face of retaining walls. The Contractor's method of obtaining the surface texture specified on the plans shall be subject to approval by the Engineer.

Upon approval of the construction procedures by the Engineer, the Contractor shall pour a 9 m (30 feet) long test section of retaining wall at a location directed by the Engineer. After removal of the formwork, the Engineer will examine the test section of the wall and instruct the Contractor if the rustication finish is acceptable or if future wall sections need further modications. If necessary, the Contractor shall pour additional test sections of wall at locations designated by the Engineer until a wall section meets with the Engineer's approval. The

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

rustication finish of all subsequently installed wall sections shall match the approved test section. All deviations from the approved rustication finish shall be repaired by the Contractor to the satisfaction of the Engineer at no additional cost to the contract.

The Contractor shall notify the Engineer at least 40 hours prior to placing concrete. Concrete shall not be placed until the Engineer has inspected the formwork and the placement of reinforcing bars for compliance with the plans.

Method of Measurement. Rustication finish will be measured in place and the area computed in square meters (square feet). The dimensions used to compute the area of rustication will be the dimensions indicated on the plans or directed by the Engineer which outline plane area. Measurement will not be made on the actual surface area of rustication finish.

Basis of Payment. This work will be paid for at the contract unit price per square meter (square foot) for RUSTICATION FINISH, which price includes all work as specified herein.

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TEMPORARY SOIL RETENTION SYSTEM (REMAIN IN PLACE)

<u>Description.</u> This work shall consist of designing, furnishing, installing, adjusting for stage construction when required, of the temporary soil retention system according to the dimensions and details shown on the plans and in the approved design submittal.

<u>General.</u> The temporary soil retention system shall be designed by the Contractor as a minimum, to retain the exposed surface area specified in the plans or as directed by the Engineer.

The design calculations and details for the temporary soil retention system proposed by the Contractor shall be submitted to the Engineer for approval. The calculations shall be prepared and sealed by an Illinois Licensed Structural Engineer. This approval will not relieve the Contractor of responsibility for the safety of the excavation. Approval shall be contingent upon acceptance by all involved utilities and/or railroads.

Construction. The Contractor shall verify locations of all underground utilities before installing any of the soil retention system components or commencing any excavation. Any disturbance or damage to existing structures, utilities or other property, caused by the Contractor's operation, shall be repaired by the Contractor in a manner satisfactory to the Engineer at no additional cost to the Department. The soil retention system shall be installed according to the Contractor's approved design, or as directed by the Engineer, prior to commencing any related excavation. If unable to install the temporary soil retention system as specified in the approved design, the Contractor shall have the adequacy of the design and constructability re-evaluated. Any reevaluation shall be submitted to the Engineer for approval prior to commencing the excavation adjacent to the area in question. The Contractor shall not excavate below the maximum excavation line shown in the approved design without the prior permission of the Engineer.

The temporary soil retention system shall remain in place until the Engineer determines it is no longer required. The removal of the temporary soil retention system will be by others under a separate future or concurrent contract.

When an obstruction is encountered, the Contractor shall notify the Engineer and upon concurrence of the Engineer, the Contractor shall begin working to break up, push aside, or remove the obstruction. An obstruction shall be defined as any object (such as but not limited to,

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

boulders, logs, old foundations etc.) where its presence was not obvious or specifically noted on the plans prior to bidding, that cannot be driven or installed through or around, with normal driving or installation procedures, but requires additional excavation or other procedures to remove or miss the obstruction.

<u>Method of Measurement</u>. The temporary soil retention system furnished and installed according to the Contractor's approved design or as directed by the Engineer will be measured for payment in place, in square meters (square feet). The area measured shall be the vertical exposed surface area envelope of the excavation supported by temporary soil retention system.

Any temporary soil retention system cut off or installed beyond those dimensions shown on the contract plans or the approved contractor's design without the written permission of the Engineer, shall not be measured for payment but shall be done at the contractor's own expense.

<u>Basis of Payment</u>. This work will be paid for at the contract unit price per square meter (square foot) for TEMPORARY SOIL RETENTION SYSTEM (REMAIN IN PLACE).

Payment for any excavation, related solely to the installation and removal of the temporary soil retention system and/or its components, shall not be paid for separately but shall be included in the unit bid price for TEMPORARY SOIL RETENTION SYSTEM (REMAIN IN PLACE). Other excavation, performed in conjunction with this work, will not be included in this item but shall be paid for as specified elsewhere in this contract.

Obstruction mitigation shall be paid for according to Article 109.04 of the Standard Specifications.

TEMPORARY SHEET PILING

Effective: September 2, 1994 Revised: January 1, 2002

<u>Description.</u> This work shall consist of furnishing, driving, adjusting for stage construction when required and subsequent removal of the sheet piling according to the dimensions and details shown on the plans and according to the applicable portions of Section 512 of the Standard Specifications.

This work shall also include furnishing, installing and subsequent removal of all struts, tiebacks, wales, miscellaneous steel shapes, plates and connecting hardware as required for proper completion of this work.

<u>General.</u> When the Contractor is required to provide a design or when he/she elects to vary from the design requirements to less than those shown on the plans, the design and details shall be submitted to the Engineer for approval. The calculations shall be prepared and sealed by an Illinois Licensed Structural Engineer. This approval will not relieve the Contractor of responsibility for the safety of the excavation. Approval shall be contingent upon acceptance by all involved utilities and/or railroads.

The sheet piling shall be steel sheet piling and may be new or used material, at the option of the Contractor. The sheet piling shall have a minimum section modulus as shown on the plans or in the approved design, with a minimum yield strength of 265 MPa (38.5 ksi) unless otherwise specified. The sheeting, used by the Contractor, shall be identifiable and in good condition free of bends and other structural defects. The Contractor shall furnish a copy of the published sheet pile

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

section properties to the Engineer for verification purposes. The Engineer's approval will be required prior to driving any sheeting. All driven sheeting not approved by the Engineer shall be removed at the Contractor's expense.

<u>Construction.</u> The Contractor shall verify locations of all underground utilities before driving any sheet piling. Any disturbance or damage to existing structures, utilities or other property, caused by the Contractor's operation, shall be repaired by the Contractor in a manner satisfactory to the Engineer at no additional cost to the Department. The sheet piling shall be driven to or below the tip elevations specified on the plans or according to the Contractor's approved design, or as directed by the Engineer. The sheet piling shall be in place prior to commencing any related excavation. The Contractor shall not excavate below the limits of excavation shown on the plans without the prior permission of the Engineer. The sheet piling shall remain in place until the Engineer determines it is no longer required.

The sheet piling shall be removed and disposed of by the Contractor when directed by the Engineer. When allowed, the Contractor may elect to cut off a portion of the sheet piling leaving the remainder in place. The remaining sheet piling shall be a minimum of 300 mm (12 in.) below the finished grade or as directed by the Engineer. Removed sheet piling shall become the property of the Contractor.

<u>Method of Measurement</u>. Temporary sheet piling will be measured in place in square meters (square feet). Sheet piling that is cut off or driven beyond those dimensions shown on the plans or as detailed in the approved Contractor's design will not be measured for payment.

<u>Basis of Payment</u>. This work will be paid for at the contract unit price per square meter (square foot) for TEMPORARY SHEET PILING.

TEMPORARY SOIL RETENTION SYSTEM

Effective: December 30, 2002

<u>Description.</u> This work shall consist of designing, furnishing, installing, adjusting for stage construction when required and subsequent removal of the temporary soil retention system according to the dimensions and details shown on the plans and in the approved design submittal.

<u>General.</u> The temporary soil retention system shall be designed by the Contractor as a minimum, to retain the exposed surface area specified in the plans or as directed by the Engineer.

The design calculations and details for the temporary soil retention system proposed by the Contractor shall be submitted to the Engineer for approval. The calculations shall be prepared and sealed by an Illinois Licensed Structural Engineer. This approval will not relieve the Contractor of responsibility for the safety of the excavation. Approval shall be contingent upon acceptance by all involved utilities and/or railroads.

Construction. The Contractor shall verify locations of all underground utilities before installing any of the soil retention system components or commencing any excavation. Any disturbance or damage to existing structures, utilities or other property, caused by the Contractor's operation, shall be repaired by the Contractor in a manner satisfactory to the Engineer at no additional cost to the Department. The soil retention system shall be installed according to the Contractor's approved design, or as directed by the Engineer, prior to commencing any related excavation. If unable to install the temporary soil retention system as specified in the approved design, the Contractor shall have the adequacy of the design re-evaluated. Any reevaluation shall be

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

submitted to the Engineer for approval prior to commencing the excavation adjacent to the area in question. The Contractor shall not excavate below the maximum excavation line shown in the approved design without the prior permission of the Engineer. The temporary soil retention system shall remain in place until the Engineer determines it is no longer required.

The temporary soil retention system shall be removed and disposed of by the Contractor when directed by the Engineer. When allowed, the Contractor may elect to cut off a portion of the temporary soil retention system leaving the remainder in place. The remaining temporary soil retention system shall be removed to a depth which will not interfere with the new construction, and as a minimum, to a depth of 300 mm (12 in.) below the finished grade, or as directed by the Engineer. Removed system components shall become the property of the Contractor.

When an obstruction is encountered, the Contractor shall notify the Engineer and upon concurrence of the Engineer, the Contractor shall begin working to break up, push aside, or remove the obstruction. An obstruction shall be defined as any object (such as but not limited to, boulders, logs, old foundations etc.) where its presence was not obvious or specifically noted on the plans prior to bidding, that cannot be driven or installed through or around, with normal driving or installation procedures, but requires additional excavation or other procedures to remove or miss the obstruction.

<u>Method of Measurement</u>. The temporary soil retention system furnished and installed according to the Contractor's approved design or as directed by the Engineer will be measured for payment in place, in square meters (square feet). The area measured shall be the vertical exposed surface area envelope of the excavation supported by temporary soil retention system.

Any temporary soil retention system cut off, left in place, or installed beyond those dimensions shown on the contract plans or the approved contractor's design without the written permission of the Engineer, shall not be measured for payment but shall be done at the contractor's own expense.

<u>Basis of Payment</u>. This work will be paid for at the contract unit price per square meter (square foot) for TEMPORARY SOIL RETENTION SYSTEM.

Payment for any excavation, related solely to the installation and removal of the temporary soil retention system and/or its components, shall not be paid for separately but shall be included in the unit bid price for TEMPORARY SOIL RETENTION SYSTEM. Other excavation, performed in conjunction with this work, will not be included in this item but shall be paid for as specified elsewhere in this contract.

Obstruction mitigation shall be paid for according to Article 109.04 of the Standard Specifications.

EROSION CONTROL

EROSION AND SEDIMENT CONTROL MANAGER

Effective: January 1, 2003

This Special Provision revises Section 105 (Control of Work) of the Standard Specifications for Road and Bridge Construction, creating a requirement for a designated erosion and sediment control manager to be present full time at this project.

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

Add the following to Article 105.06:

Erosion and Sediment Control Manager (ESCM). The Contractor shall assign to the project an on-site full-time employee to serve in the capacity of ESCM. This employee shall be thoroughly experienced in all aspects of erosion and sediment control and construction. The ESCM shall have sufficient authority for the implementation of the approved erosion and sediment control schedules and methods of operation, including both on-site and off-site activities.

At least 10 days prior to beginning any work on this project, the name and credentials of the ESCM shall be submitted to the Engineer. Any changes in the ESCM shall require a resubmission of the above. The resubmission shall be timed to ensure that an ESCM is assigned to the project at all times. This ESCM is considered to be included in the base bid and no separate pay item shall be provided.

EROSION AND SEDIMENT CONTROL CALL OUT

Effective: January 1, 2003

This work shall consist of the short notice mobilization of a work crew for the purpose of maintaining and repairing critical erosion and sediment control items when required to respond to unpredictable events beyond the Contractor's control. Upon receipt of a written notification of the a Request for Erosion and Sediment Control Call Out (RESCCO) from the Engineer, the Contractor shall have until the end of the next Working Day to perform the required work.

If the required work is not performed by the end of the next Working Day, the Request for Erosion and Sediment Control Call Out will also be considered the warning for an Erosion and Sediment Control Deficiency Deduction (ESCDD). The Erosion and Sediment Control Deficiency Deduction will be dated 2 Working Days after the date on the Request for Erosion and Sediment Control Call Out. The Erosion and Sediment Control Deficiency Deduction will be enforced as described herein.

Contractor Action	Department Action	
Receipt of RESCCO end of Day One.	Deliver RESCCO on Day One	
Finish required Work end of Day Two.	Department measures work performed according to Erosion and Sediment Control Call Out Method of Measurement.	
Finish required Work end of Day Three.	Department pays only standard pay items and does not apply to Erosion and Sediment Control Call Out Method of Measurement.	
Finish required Work end of Day Four or later.	Department invokes ESCDD prior to Work Day Three, pays only standard work pay items, and does not apply to Erosion and Sediment Control Call Out Method of Measurement.	

Any individual RESCCO will not be applied towards work whose contract prices total more than \$10,000 (ten thousand dollars) before the application of Article 280.06.

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

Method of Measurement. This work will not be measured for payment separately, but included in the items of work performed, when indicated in a Request for Erosion and Sediment Control Call Out. Each RESCCO will be paid at a rate of 1.1 units for every 1.0 units of work measured and performed.

Basis of Payment. This work will be paid for at the contract unit price for the work items performed, measured as specified and will not be paid for separately

EROSION AND SEDIMENT CONTROL SCHEDULE

Effective: January 1, 2003

This Special Provision revises Section 108 (Prosecution and Progress) of the Standard Specifications for Road and Bridge Construction, creating a requirement that erosion and sediment control work items be included in the overall Progress Schedule.

Add the following to the end of the first paragraph of Article 108.02:

The Progress Schedule shall also include the following listed items. The erosion and sediment control components of the Progress Schedule shall be referred to as the Erosion and Sediment Control Schedule.

The Erosion and Sediment Control Schedule shall include the following:

- (a) Clearing of areas necessary for installation of perimeter controls specified in the Contract Documents.
- (b) Construction of perimeter controls specified in the Contract Documents.
- (c) Remaining clearing.
- (d) Roadway grading (including off-site work).
- (e) Structural Stabilization devices listed in the Storm Water Pollution Prevention Plan (SWPPP).
- (f) Winter shutdown date and probable days lost to inclimate weather.
- (g) Seeding dates.
- (h) If applicable, utility installation and whether storm drains shall be used or blocked after construction.
- (i) Final grading, landscaping, and stabilization.
- (j) Removal of perimeter controls as required by plans.

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

SURFACE ROUGHENING

Effective: January 1, 2003

This Special Provision revises Section 250 (Seeding) of the Standard Specifications for Road and Bridge Construction, creating a requirement that steep slopes be surface roughened as part of the seed bed preparation.

After the first paragraph of Article 250.05 add the following paragraph:

All slopes 1:3 (vertical to horizontal) and steeper shall be surface roughened by tracking with tracked machinery. The machinery shall be operated up and down the slope to leave horizontal depressions in the prepared seed bed. Back-blading shall not be permitted during the final grading operation. The number of machinery passes shall be limited to minimize soil compaction.

After the third paragraph of Article 250.10 add the following paragraph:

Surface roughening will not be paid separately, but is included in the cost of Seeding, of the type specified.

EROSION AND SEDIMENT CONTROLS

Effective: January 1, 2003

This Special Provision revises Section 280 (Temporary Erosion Control) of the Standard Specifications for Road and Bridge Construction.

Include the following as the third paragraph of Article 280.01:

This work shall also include implementation and management of the approved Erosion and Sediment Control Schedules, method of operation weekly co-inspections, inspection following rainfalls, and preparation and adherence to the Erosion and Sediment Control Schedule. Removal of erosion and sediment control items will be by others in the future where shown on the Plans or as directed by the Engineer.

Revise Article 280.02 (f) to read:

(f)	Silt Fence	Article 1080.02
	Add the following as Article 280.02:	
(k)	Course Aggregate	Article 1004.01 gradation CA-3
(I)	Geotextile Fabric	Article 1080.03
(m)	Seeding Class 2A	Article 250.07 & 1081.04
(n)	Excelsior Blanket	Article 1081.10 (a)

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

(o) Riprap, Gradation 3Article 1005.01

(p) Sediment Control, Drainage Structure Inlet Filter......Article 1080.08

(g) Cellular Confinement Grid.......Article 1080.06

Delete Article 280.04 (b) and replace with:

(b) Sediment Control, Silt Fence. This silt fence shall consist of a continuous silt fence adjacent to an area of construction to intercept sheet flow of water borne silt and sediment, and prevent it from leaving the area of construction.

The silt fence shall be supported on hardwood posts spaced on a maximum of 2.4 m (8 ft) centers. The bottom of the fabric shall be installed in a backfilled and compacted trench a minimum of 150 mm (6 in) deep, and securely attached to the hardwood post by a method approved by the Engineer. The minimum height above ground for all silt fence shall be 760 mm (30 in).

Add the following as Article 280.04:

(h) Sediment Control, Stabilized Construction Entrance. This work shall consist of the furnishing of all equipment, labor, and materials necessary for the installation of the stabilized construction entrances as shown on the Plans or as directed by the Engineer. Construction entrances shall be used in conjunction with the stabilization of construction roads and other exposed areas to reduce or eliminate the tracking of sediment onto public right-of-ways or streets.

Topsoil shall be removed, geotextile fabric placed, and the cellular confinement grid installed and staked according to the manufacturer's recommendations. Stabilized construction entrances shall be built to the lines and dimensions shown in the details at the locations shown in the Plans, or as directed by the Engineer. The cells shall be filled with aggregate base course using gradation CA-3. The aggregate base course shall be placed within the cellular confinement grid using the methods and equipment recommended by the manufacturer. The aggregate base course shall be placed by applicable portions for Section 351 of the Standard Specification. All surface water flowing or diverted toward the construction entrance shall be accounted for either by installation of a pipe culvert under the entrance, or if piping is impractical, a mountable berm will be permitted.

Sediment Control, Stabilized Construction Entrance Removal. This work shall consist of the removal of a stabilized construction entrance and all items necessary for the removal of a stabilized construction entrance. This includes the under entrance pipe culvert or excess aggregate for the mountable berm, any aggregate radii abutting temporary pavement, cellular confinement grids, and all unnecessary aggregate within 5 m (16 ft) of the original lines and dimensions of which the entrance was constructed. All methods of removal shall be approved by the Engineer. Material shall be disposed of according to Article 202.03, or as directed by the Engineer.

(i) Erosion Control, Temporary Pipe Slope Drain. This work shall consist of furnishing of the equipment, labor, and materials necessary for the installation, maintaining and removal of pipe, anchor devices, filter fabric, and flared end sections to convey surface runoff down the face of un-stabilized slopes to minimize erosion on the slope face. Temporary Pipe Slope Drain shall be used in conjunction with temporary berms that direct runoff into the temporary pipe slope drain flared end section located at the top of the embankment, for the length of the embankment.

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

The temporary pipe slope drain shall be constructed as shown in the plans and shall outlet into a sediment trap or basin, or a stable conveyance system that leads to a sedimentation device, as approved by the Engineer. The temporary pipe slope drain, inlet, and outlet shall be securely anchored to the slope in such a manner to prevent any movement laterally and vertically. All methods of anchoring shall be approved by the Engineer. All connections are to be watertight. A flared end section shall be attached to the inlet end of the pipe and shall be relocated each time the pipe is extended. The height of the temporary berm at the location of the temporary pipe slope drain shall be at least 2 times the diameter of the pipe. To prevent erosion around the flared end section, geotextile fabric will be placed under the flared end section and shall extend 2 meters (6 feet) in front of it and up the front face of the temporary berm. This work shall be installed as shown in the Plans or as approved by the Engineer.

At the end of each construction day, temporary berms at the top edge of the embankment shall be constructed and each temporary pipe slope drain will be extended and the inlet reinstalled. These temporary berms shall be constructed as shown on the Plans or as directed by the Engineer.

(j) Erosion Control, Temporary Channel Diversion. This system consists of the furnishing of the equipment, labor, and materials required to install, maintain and remove the temporary channel diversion needed to carry the existing stream flow through or around a construction site while the permanent drainage structure is being installed. The temporary channel diversion will be stabilized as shown on the drawings and will be removed/filled once the permanent drainage structure is in place and stabilized.

All surfaces to be protected shall be graded and compacted. Prepared surfaces that become crusted shall be reworked to an acceptable condition prior to placing the geotextile fabric.

Geotextile Fabric Installation In-Stream. Geotextile fabric shall be applied with the length of roll laid parallel to the flow of the water. Start the installation with the initial strip placed in the center of the ditch to avoid an overlap in the center of the ditch. Where more than one width is required, lap joints shall be limited to one every 3 meters of width.

An anchor slot shall be placed at the upslope and downslope ends of the geotextile fabric perpendicular to the flow of water. At least 30 cm (12 in) of the end of the geotextile fabric shall be buried vertically in the anchor slot. The geotextile fabric shall be secured in the anchor slot by pins at 1 meter (3 feet) or less on center prior to burying. The soil shall be firmly compacted against the geotextile fabric in the anchor slot. This shall be accomplished by placing the geotextile fabric into the slot, folding it over to expose the underside, pinning the fabric through both layers, backfilling the anchor slot, and compacting the soil.

Pins shall be a 5 mm diameter x 450 mm (3/16 in x 18 in) long wire with a 40 mm (1.5 in) washer attached and shall be driven flush to geotextile fabric surface.

Successive lengths of geotextile fabric shall be overlapped at least 1 meter (3 feet) with the upstream length on top. Pin the overlap by placing 3 pins evenly spaced across the upslope end, center, and downslope end of the overlap, totaling 9 pins for each overlap. Check slots, oriented perpendicular to the flow of water, shall be constructed by placing a tight fold at least 20 cm (8 in) vertically into the soil spaced no more than 8 meters (27 feet) on center. Pin the geotextile fabric in the check slot at each edge overlap and in the center of the geotextile fabric.

Side edges of temporary diversion channel geotextile fabric shall terminate on horizontal shelves running parallel to the flow of water for the full length of the ditch. Edges of the

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

geotextile fabric shall be pinned at 1 meter (3 feet) on center and buried in the Sediment Control, Silt Fence trench.

The Contractor shall maintain the temporary diversion channel until all work on the contract has been completed and accepted. Maintenance shall consist of the repair of areas damaged by any cause.

Restoration of the Temporary channel shall include cleaning any sediment from the channel and backfilling it with approved embankment.

The location of the temporary channel diversion shall be as shown in the plans, or as directed by the Engineer. Water shall not be diverted through the diversion channel until it is adequately protected with geotextile fabric.

(k) Same-Day Stabilization. This work is to be implemented after the initial perimeter controls are in place and concurrently placed with the Contractor's daily operations. These critical areas shall be designated for Same-Day Stabilization as shown on the Plans.

Same-Day Stabilization may consist of either temporary erosion control measures or the permanent landscaping as indicated on the Plans. The permanent landscaping shall be implemented for the Same-Day Stabilization whenever possible. The placing of permanent landscaping intended to be removed at a later date shall receive prior approval by the Engineer. The Contractor shall stage his work so that portions of the slopes and ditches can be brought to finish grade, topsoil placed, and landscaped prior to the end of the workday, whenever possible.

In either case, the work zone must be left in such condition that the disturbed areas are stabilized. Temporary erosion control measures consist of tarps sufficiently staked to the ground or other erosion controls approved by the Engineer. Measures shall be taken to control sediment -laden water and on-site runoff into dewatering or sedimentation devices on a daily basis.

The Contractor shall be responsible for coordinating his operations with the work of any subcontractors, to insure that stabilization is performed the same day that the disturbance occurs. The performance of Same-Day Stabilization is also subject to the penalties of the Erosion and Sediment Control Deficiency Deduction described herein.

(I) Erosion Control, Diversion Dike and Temporary Ditch. This work shall consist of the construction and maintenance of a temporary ridge of compacted soil, located to intercept and divert runoff to a stabilized outlet or to intercept sediment-laden water and divert it to a sediment-trapping device. Diversion Dikes or Temporary Ditches shall be constructed to the lines and dimensions shown on the plans or as directed by the Engineer.

The diversion dike shall be stabilized through the use of Erosion Control Blanket and Temporary Erosion Control Seeding. Diversion dikes intended for use longer than one construction season may be seeded with Seeding Class 2A, or as directed by the Engineer. Excelsior Blanket shall be installed in the manner described for placement in ditches, with the direction of water flow being parallel to the length of the diversion dike.

The embankment used to construct the diversion dike shall be placed along an alignment which all trees, brush, stumps, and other obstructions have been removed that would interfere with the proper functioning of the diversion dike. The embankment shall be constructed by applicable portions for Section 205 of the Standard Specification.

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

(m) Sediment Control, Dewatering Basins. This work shall consist of the construction, maintenance, and removal or filling and compacting of the dewatering basins. A dewatering basin shall be installed wherever the Contractor is removing and discharging water from excavated areas on the construction site and the water is not being routed through an adequately sized sediment trap or sediment basin, as determined by the Engineer. The purpose of the basin is to temporarily store the discharged water and to release it in a manner that causes the sediment-laden water to be filtered prior to release into a natural drainage way or stabilized conveyance. Dewatering basins shall be located above the water table whenever possible. Whenever possible the excavated material shall be placed in ring around the dewatering basin. An aggregate spillway consisting of class 3 riprap, shall be constructed as shown in the plan detail and lined with geotextile fabric.

The volume required to be stored is dependent upon the pumping rate and the amount of sediment in the water. Locations of the dewatering basins are as shown on the Plans or as approved by the Engineer. All methods of placing embankment must be approved by the Engineer.

Dewatering Basins shall be filled in or removed by a method approved by the Engineer. Whenever possible, the material excavated from the dewatering basin shall be the material returned to the dewatering basin. Final dewatering shall not be made directly into a stream or channel All other fill materials shall require the approval of the Engineer. Material shall be disposed of according to Article 202.03, or as directed by the Engineer.

- (n) Sediment Control, Stone Outlet Structure Sediment Trap. This work shall consist of the furnishing all of the equipment, labor and materials required to install and maintain a stone outlet structure sediment trap, as shown on the Details in the Plans, or as directed by the Engineer. Riprap, placed over a geotextile fabric, shall be used to construct the stone outlet structure.
- (o) Sediment Control, Drainage Structure Inlet Filter. This work shall consist of the furnishing, installation, and removal of a drainage structure inlet filter assembly, consisting of a frame and filter bag, to collect sediment in surface storm water runoff at locations shown on the plans or as directed by the Engineer.

The Contractor shall inspect the work site and review the plans to determine the number and dimensions of the various types of drainage structure frames (circular and rectangular) into which the inlet filters will be installed prior to ordering materials. A detail drawing in the Plans depicts the drainage structure inlet filter assembly. A clean used bag and a used steel frame in good condition meeting the approval of the Engineer may be substituted for new materials.

The drainage structure inlet filter assembly shall be installed under the grate on the lip of the drainage structure frame with the fabric bag hanging down into the drainage structure.

The drainage structure inlet filter assembly shall remain in place until the Engineer directs final removal of the assembly. The drainage structure inlet filter assembly shall remain the property of the Contractor.

Final removal of the assembly shall include the disposal of debris or silt that has accumulated in the filter bag at the time of final removal. Periodic cleaning of the filter is paid for separately.

Add the following to Article 280.05:

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

Sediment Control, Silt Fence Maintenance shall consist of maintaining silt fence that has fallen down or become ineffective as a result of natural forces. This work shall include the removal of sediment buildup from behind the silt fence when the sediment has reached a level of half the above ground height of the fence, or as directed by the Engineer. Silt fence damaged by the Contractor's operations or negligence shall be repaired at the Contractor's expense, or as directed by the Engineer.

Sediment Control, Stabilized Construction Entrance Maintenance shall consist of maintaining stabilized construction entrances that have become ineffective as a result of standard operations and natural forces. This work will include will include the removal and proper disposal of excess materials and the delivery and placing of aggregate in the manner described in Sediment Control, Stabilized Construction Entrance.

Sediment Control, Drainage Structure Inlet Filter Cleaning shall consist of cleaning sediment out of a drainage structure inlet filter when directed by the Engineer. This cleaning work is to be periodically performed as directed by the Engineer, for the duration of the use of each drainage structure inlet filter assembly. The Engineer will be the sole judge of the need for cleaning, based on the rate that debris and silt is collected at each inlet filter location.

Cleaning of the inlet filter shall consist of inspecting, cleaning (includes removal and proper disposal of debris and silt that has accumulated in the filter fabric bag), by vactoring, removing and dumping, or any other method approved by the Engineer.

280.06 Method of Measurement. Revise Article 280.06 (a) to read:

(a) Excavation for Sediment and Dewatering Basins, Temporary Ditches, Diversion Dikes, and Dewatering Basins. The volume of excavation for sediment and dewatering basins, temporary ditches, and diversions dikes will be measured for payment in place and the volume computed in cubic meters (cubic yards).

Revise Article 280.06 (c) to read:

(c) Sediment Control, Silt Fence. This work will be measured for payment in meters (feet) in place and removed. Silt fence designated not to be removed, by the Plans or the Engineer will be measured for payment by this item, as well.

Sediment Control, Silt Fence Maintenance. This work will be measured for payment, each incident, in meters (feet) of silt fence cleaned, re-erected, or otherwise maintained.

Add the following as Article 280.06:

(h) Sediment Control, Stabilized Construction Entrance. This work will be measured for payment by the outside dimensions of cellular confinement grid and the area calculated in square meters (square yards). All grading, excavation, and embankment necessary to construct the entrance shall not be paid for separately, but included in the cost of Sediment Control, Stabilized Construction Entrance. Temporary pavement placement shall be paid for separately. Placement of the Pipe Culvert, of the diameter specified, shall be paid for separately. If additional Trench Backfill should be required for placement of the Pipe Culvert, it shall be paid for separately.

Sediment Control, Stabilized Construction Entrance Maintenance. This work will be measured for payment to the outside dimensions of the material removed and the area calculated in square meters (square yards). All excavation and grading necessary to remove and replace the

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

sediment fill aggregate shall not paid for separately, but shall be included in the cost of Sediment Control, Stabilized Construction Entrance Maintenance.

Sediment Control, Stabilized Construction Entrance Removal. This work will be measured for payment for each stabilized construction entrance removed. Removal of temporary pavement and temporary pipe culverts shall not be paid for separately, but included in the cost of Sediment Control, Stabilized Construction Entrance Removal.

- (i) Erosion Control, Temporary Pipe Slope Drains. This work will be measured for payment by each complete system installed and maintained, regardless of pipe diameter and length. This work will be measured only once per location installed. All connections, anchors, extensions, geotextile materials, and temporary berms used to install, reinstall, or operate the temporary pipe slope drains will not be measured for payment.
- (j) Erosion Control, Temporary Channel Diversion. This work will be measured for payment in along the centerline of the channel in meters (feet) of temporary channel diversion installed, maintained, and removed. Earth Excavation, Earth Plug, Riprap, geotextile materials for channel lining, and backfill will not be measured separately for payment, but be included in cost of temporary channel diversion. Sediment Control, Silt Fence shall be paid for separately.
- (k) Same-Day Stabilization. This work will not be measured for payment, but included in the cost of the items utilized shown on the Plans or as directed by the Engineer.
- (I) Sediment Control, Stone Outlet Structure Sediment Trap. This work will not be measured for payment separately, but included in the price for each item of work performed as shown in the Details in the Plans.
- (m) Sediment Control, Drainage Structure Inlet Filter. This work will be measured for payment for each drainage structure inlet filter installed and removed at each of the drainage structure locations.

Sediment Control, Drainage Structure Inlet Filter Cleaning. This work will be measure for payment each time that the cleaning work is performed at each of the drainage structure inlet filter locations.

Revise Article 280.07 (a) to read:

(a) Excavation for Sediment and Dewatering Basins, Temporary Ditches, and Diversion Dikes. This work will be paid for at the contract unit price per cubic meter (cubic yard) for EARTH EXCAVATION FOR EROSION CONTROL. The various required linings shall be paid for at the contract unit price for the various items of work as detailed on the plans.

Revise Article 280.07 (c) to read:

(c) Sediment Control, Silt Fence. This work will be paid for at the contract unit price per meter (feet) for SEDIMENT CONTROL, SILT FENCE.

Sediment Control, Silt Fence Maintenance. This work will be paid for at the contract unit price per meter (feet) for SEDIMENT CONTROL, SILT FENCE MAINTENANCE per each occurrence.

Revise Article 280.07 (h) to read:

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

(h) Maintenance. Maintenance of temporary erosion and sediment control systems, including repair of the various systems, removal of entrapped sediment and cleaning of any silt filter fabric will be paid for according to Article 109.04, unless otherwise specified. The sediment shall be removed as directed by the Engineer during the contract period and disposed of according to Article 202.03.

Add the following as Article 280.07:

(i) Sediment Control, Stabilized Construction Entrance. This work will be paid for at the contract unit price per square meter (square yard), for SEDIMENT CONTROL, STABILIZED CONSTRUCTION ENTRANCE. Pipe Culverts shall be paid for in accordance to Article 542.11 of the Standard Specifications. Trench Backfill shall be paid for in accordance to Article 208.04.

Sediment Control, Stabilized Construction Entrance Maintenance. This work will be paid for at the contract unit price per square meter (square yard), for SEDIMENT CONTROL, STABILIZED CONSTRUCTION ENTRANCE MAINTENANCE.

Sediment Control, Stabilized Construction Entrance Removal. This work will be paid for at the contract unit price each, for SEDIMENT CONTROL, STABILIZED CONSTRUCTION ENTRANCE REMOVAL.

- (j) Erosion Control, Temporary Pipe Slope Drains. This work will be paid for at the contract unit price each, for EROSION CONTROL, TEMPORARY PIPE SLOPE DRAINS.
- (k) Erosion Control, Temporary Channel Diversion. This work will be paid for at the contract unit price, per meter (feet), for EROSION CONTROL, TEMPORARY CHANNEL DIVERSION.
- (I) Same-Day Stabilization. This work will be paid for at the contract unit price for the various items of work performed and will not be paid for separately.
- (m) Sediment Control, Stone Outlet Structure Sediment Trap. This work will be paid for at the contract unit price for the work measured and will not be paid for separately. Riprap will be paid for according to Article 281.07. Earth Excavation for Erosion Control will be paid for according to Article 280.07 (a)
- (n) Sediment Control, Drainage Structure Inlet Filter. This work will be paid for at the contract unit price per each for SEDIMENT CONTROL, DRAINAGE STRUCTURE INLET FILTER.

Sediment Control, Drainage Structure Inlet Filter Cleaning. This work will be paid for at the contract unit price per each occurrence for SEDIMENT CONTROL, DRAINAGE STRUCTURE INLET FILTER CLEANING.

ARTICULATED BLOCK MATS

Effective January 1, 2003

This Special Provision revises Section 285 (Concrete Revetment Mats) of the Standard Specifications for Road and Bridge Construction to change the requirement in which articulated block mats are installed.

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

Add the following to Article 285.06:

When Advance Articulated Block Mats are shown in the Plans, the Engineer may order the Articulated Block Mats be placed at any time, but never until the majority of grading is completed in the area and before any other required erosion-causing work begins. The Articulated Block Mats may be placed in a temporary manner; individual mats do not have to be sectioned to fit irregular spaces, but the area shall be covered as best possible with full size mats as approved by the Engineer. The Contractor may perform the trim and finish of the articulated block mats at his discretion.

The Contractor is required to protect the articulated block mats from damage by his operations for the duration of the Contract. Damage that requires repair includes, but is not limited to the following: severing of a flexible cable by more than 40% of its cross section or full breakage of two or more adjacent blocks.

GEOTEXTILE FABRIC MATERIALS

Effective: January 1, 2003

This Special Provision revises Section 1080 (Fabric Materials) of the Standard Specifications for Road and Bridge Construction to create a new material specifications for silt fence, stabilized construction entrances, and inlet filters.

Add the following to Article 1080.02:

Sediment Control, Silt Fence fabric shall conform to the specifications of AASHTO M288-00 for Temporary Silt Fence, < 50% elongation, unsupported. This fabric shall be 90 cm (36 in) in width.

Certification. The manufacturer shall furnish a certification with each shipment of silt fence material, stating the amount of product furnished, and that the material complies with these requirements.

Sediment Control, Silt Fence support posts shall be of 5x5 cm (2x2 inch) nominal hardwood, a minimum of 1.2 m (4.0 ft) long.

Add the following Article to Section 1080:

1080.06 Cellular Confinement Grid.

Maximum Cell Length	315 mm
Maximum Cell Width	
Cell Depth	200 mm
Nominal Cell Area	460 cm ²
Cells per m ²	21.7 cells

Certification. The manufacturer shall furnish a certification with each shipment of cellular confinement grid, stating the amount of product furnished, and that the material complies with these requirements.

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

Add the following as Article 1080.07:

Sediment Bag Inner Filter Component Construction. The sediment bag inner filter shall be constructed of a non-woven polypropylene geotextile fabric with a minimum silt and debris capacity of $0.56~\text{m}^3$ ($2.0~\text{ft}^3$). The sediment bag inner filter shall conform to the following requirements:

Material Property	Test Method	Minimum Average Roll Value
Grab Tensile Strength	ASTM D-4632	45 kg (100 lbs)
Grab Tensile Elongation	ASTM D-4632	50%
Puncture Strength	ASTM D-4833	29 kg (65 lbs)
Trapezoidal Tear	ASTM D-4533	20 kg (45 lbs)
UV Resistance	ASTM D-4355	70% at 500 hours
AOS (US Sieve #)	ASTM D-1420	212 μm (70 sieve US)
Permittivity	ASTM D-4491	2.0 sec ⁻¹
Water Flow Rate	ASTM D-4491	5900 Lpm/m ² (145 gpm/ft ²)

Sediment Bag Outer Reinforcing Component Construction. The filter bag shall be reinforced with a material that conforms to the following requirements:

Material Property	Test Method	Value	
Content	ASTM D-629	Polyester	
Weight	ASTM D-3776	135 g/m ² (4.55 oz/yd ²) \pm 15%	
Whales (holes)	ASTM D-3887	1.15 ± 0.31 cm $(7.5 \pm 2 \text{ inch})$	
Chorses (holes)	ASTM D-3887	2.40 ± 0.31 cm (15.5 \pm 2 inch)	
Instronball burst	ASTM D-3887	825 kPa (120 psi) minimum	
Thickness	ASTM D-1777	1.0 mm (0.040 in) ± 12%	

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

Certification. The manufacturer shall furnish a certification with each shipment of drainage structure inlet filter, stating the amount of product furnished, and that the material complies with these requirements.

Add the following to as Article 1080.08

1080.08 Temporary Sediment Control Materials

(a) Sediment Control, Drainage Inlet Filter Frame Construction. The frame construction of the top ring, base ring, handles, and suspension brackets shall be fabricated to the lines and dimensions shown in the details in the Plans. All domestic steel shall conform to ASTM-A36. The frame shall include an overflow feature that is welded to the frame's ring. The overflow feature shall be designed to allow full flow of water into the structure if the filter bag is filled with sediment. The dimensions of the assembly frame shall allow the drainage structure grate to fit into the inlet filter assembly frame opening. The assembly frame shall rest on the inside lip of the drainage structure frame for the full variety of existing and proposed drainage structure frames that are present on this contract. The inlet filter assembly frame shall not cause the drainage structure grate to extend higher than 6.35 mm (¼ inch) above the drainage structure frame.

TEMPORARY DITCH CHECKS

Effective: January 24, 2002 Revised:

This Special Provision revises Section 280 of the Standard Specifications for Road and Bridge Construction to eliminate the use of Aggregate Ditch Checks and Hay or Straw Bales for Temporary Ditch Checks.

Delete Paragraphs 2 and 3 of Article 280.04 (a) Temporary Ditch Checks.

Add to Article 280.04 (a) Temporary Ditch Checks: Temporary Ditch Checks shall be at least 3.66 meters (12 feet) or longer in length.

Posted: 04/25/02 Provided by: IDOT

ELECTRICAL

GENERAL ELECTRICAL REQUIREMENTS

Effective: March 10, 2004

Modify the second sentence of the second paragraph of Article 801.06 to read:

"Non-emergency repairs shall be performed by the Contractor or the Contract 62664 contractor as determined by the Engineer. If the Engineer determines that the Contractor shall perform the non-emergency repairs, the Contractor shall perform these repairs within six working days following discovery or notification, to the satisfaction of the Engineer."

Revise the 7th and 8th paragraphs of Article 801.08 of the Standard Specifications to read:

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

"Engineer'.s Stamp. After the Engineer reviews the submittals for conformance with the design concept of the project, the Engineer will stamp the drawings indicating their status as 'Approved', 'Approved-As-Noted', 'Disapproved', or 'Information Only'. Since the Engineer's review is for conformance with the design concept only, it is the Contractor's responsibility to coordinate the various items into a working system as specified. The Contractor shall not be relieved from responsibility for errors or omissions in the shop, working, layout drawings, or other documents by the Department's approval thereof. The Contractor must still be in full compliance with contract and specification requirements.

Resubmittals. All submitted items reviewed and marked 'APPROVED AS NOTED', or 'DISAPPROVED' are to be resubmitted in their entirety with a disposition of previous comments to verify contract compliance at no additional cost to the state unless otherwise indicated within the submittal comments."

COILABLE NON-METALLIC CONDUIT

Effective: March 10, 2004

Revise Article 1088.01(c) to read:

"(c) Coilable Nonmetallic Conduit.

Polyethylene Duct. The duct shall be a plastic duct which is intended for underground use and can be manufactured and coiled or reeled in continuous transportable lengths and uncoiled for further processing and/or installation without adversely affecting its properties of performance.

The duct shall be made of high density polyethylene which shall meet the requirements of ASTM D 2447, for schedule 40. The duct shall be composed of black high density polyethylene meeting the requirements of ASTM D 3350, Class C, Grade P33. The wall thickness shall be in accordance with Table 2 for ASTM D 2447.

Duct dimensions shall conform to the following table:

Nom. Duo	Nom. Duct Diameter		Nom. Outside Diameter		Thickness
mm	in	mm	in	mm	in
27	1	33.4	1.315	3.4	0.133
35	1.25	42.2	1.660	3.6	0.140
41	1.5	48.3	1.900	3.7	0.145
53	2.0	60.3	2.375	3.9	0.154

Performance Tests. Polyethylene Duct testing procedures and test results shall meet the requirements of ASTM D 3485. Certified copies of the test report shall be submitted to the Engineer prior to the installation of the duct. Duct crush test results shall meet or exceed the following requirements:

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

Duct Diameter		Min. force required to deform sample 50%	
Mm	in	N	lb
27	1	5337	1200
35	1.25	4937	1110
41	1.5	4559	1025
53	2.0	3780	850

RACEWAYS EMBEDDED IN STRUCTURE

Effective: March 10, 2004

Section 810 of the Standard Specifications for Road and Bridge Construction shall be modified as follows:

Add the following to Article 810.03(c):

"Coilable non-metallic conduit shall be machine straightened to remove the longitudinal curvature caused by coiling the conduit onto reels prior to installing in trench, encasing in concrete or embedding in structure. The straightening shall not deform the cross-section of the conduit such that any two measured outside diameters, each from any location and at any orientation around the longitudinal axis along the conduit differ by more than 6 mm (0.25")." The longitudinal axis of the straightened conduit shall not deviate by more than 20 mm per meter (0.25" per foot) from a straight line.

Section 812 of the Standard Specifications for Road and Bridge Construction shall be modified as follows:

Add the following to Article 812.02:

"(d) Coilable Nonmetallic Conduit....1088.01(c)"

Change Article 812.03(d) to 812.03 (e). Add the following as the new Article 812.03(d):

"(d) Coilable Nonmetallic Conduit. Conduit installation shall be according to Article 810.03(c)."

Add the following paragraph to Article 812.03:

All conduits which extend outside of the structure but are not terminated in a cabinet, junction box, pull box, handhole, post, pole, or pedestal shall extend a minimum or 300 mm (12") or the length shown on the plans beyond the structure. The end of this extension shall be capped and sealed with a cap designed for the conduit to be capped. The ends of rigid metal conduit to be capped shall be threaded, the threads protected with full galvanizing, and capped with a threaded galvanized steel cap. The ends of rigid nonmetallic conduit and coilable nonmetallic conduit shall be capped with a rigid PVC cap of not less than 3 mm (0.125") thick. The cap shall be sealed to the conduit using a room-temperature-vulcanizing (RTV) sealant compatible with the material of both the cap and the conduit. A washer or similar metal ring shall be glued to the inside center of the cap with epoxy, and the pull cord shall be tied to this ring.

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

STAINLESS STEEL JUNCTION BOX

Effective: January 1, 2002

Revise the second sentence of the seventh paragraph of Article 1088.04 of the Standard Specifications to read:

"The gasket shall be extruded directly onto the junction box cover."

STAINLESS STEEL JUNCTION BOX TYPE "J"

Effective: March 10, 2004

<u>Description.</u> This item shall consist of furnishing and installing at a specific location a junction box with cover, Type "J", continuously welded, 6.3mm (1/4") thick, Type 316 stainless steel as specified.

CONSTRUCTION REQUIREMENTS

All junction boxes shall be watertight. Predrilled holes shall be provided for the applicable conduit size and location. Unless otherwise specified, conduits terminating at stainless steel boxes shall be terminated in conduit hubs.

The cover shall be recessed within an outside frame, and mounted flush with the surface of this frame, having a watertight gasket extruded in place and firmly adhered to the cover. Recessed stainless steel slot head screws shall secure the cover.

<u>Junction Box Embedded in Concrete.</u> (For example:) A stainless steel continually welded box 1.04m (41") X 305 mm (12") X 305 mm (12") with stainless steel 6.3 mm (1/4") type316 cover and extruded neoprene gasket with a minimum of ten (10) 9.5 mm (3/8") 16 X 19 mm (3/4").flat head stainless steel slotted screws - <u>Reference</u> Traffic Surveillance Typical Drawings TY-1TSC-663#1.

<u>Basis of Pavment</u>. This work will be paid for at the contract unit price each for furnishing and installing a **STAINLESS STEEL JUNCTION BOX TYPE "J"**, which price shall be payment in full for all labor and materials necessary to complete the work as described above.

BUILDING REMOVAL - CASE II (NON-FRIABLE ASBESTOS ABATEMENT) (BDE)

Effective: September 1, 1990 Revised: August 1, 2001

BUILDING REMOVAL: This item shall consist of the removal and disposal of $\underline{2}$ building(s), together with all foundations, retaining walls, and piers, down to a plane 300 mm (1 ft.) below the ultimate or existing grade in the area and also all incidental and collateral work necessary to complete the removal of the building(s) in a manner approved by the Engineer. Any holes, such as basements, shall be filled with a suitable granular material. The building(s) are identified as follows:

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

Bldg. No. 1	Parcel <u>No.</u> OED1118	<u>Location</u> 2533 Bernice Avenue Lansing	<u>Description</u> Lansing Industrial Plaza
2	OED1119	2560 Bernice Avenue	Approximate building size 260.13 Sq m (2800 Sq ft); two story brick office building with the first floor below grade. Interior walls are constructed of dry wall, wood paneling and cinder block. The building has a flat, asphalt roof with insulation above the ceilings.

Discontinuance of Utilities: The Contractor shall arrange for the discontinuance of all utility services that serve the building(s) according to the respective requirements and regulations of the City, County, or utility companies involved. The Contractor shall disconnect and seal, in an approved manner, all service outlets that serve any building(s) he/she is to remove.

Signs: Immediately upon execution of the contract and prior to the wrecking of any structures, the Contractor shall be required to paint or stencil, in contrasting colors of an oil base paint, on all four sides of each residence and two opposite sides of other structures, the following sign:

PROPERTY ACQUIRED FOR HIGHWAY CONSTRUCTION TO BE DEMOLISHED BY THE

VANDALS WILL BE PROSECUTED

The signs shall be positioned in a prominent location on the structure so that they can be easily seen and read and at a sufficient height to prevent defacing. The Contractor shall not paint signs nor start demolition of any building(s) prior to the time that the State becomes the owner of the respective building(s).

The Contractor has the option of removing the non-friable asbestos prior to demolition or demolishing the building(s) with the non-friable asbestos in place. Refer to the Special Provisions titled "Asbestos Abatement (General Conditions)" and "Removal and Disposal of Non-Friable Asbestos Building No. 1" and "Removal and Disposal of Non-Friable Asbestos Building No. 2" contained herein.

Basis of Payment: This work will be paid for at the contract lump sum unit price for BUILDING REMOVAL, numbers as listed above, which price shall be payment in full for complete removal of the buildings and structures, including any necessary backfilling material as specified herein. The lump sum unit price(s) for this work shall represent the cost of demolition and disposal assuming all non-friable asbestos is removed prior to demolition. Any salvage value shall be reflected in the contract unit price for this item.

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

<u>EXPLANATION OF BIDDING TERMS</u>: Two separate contract unit price items have been established for the removal of each building. They are:

1. BUILDING REMOVAL NO. 1 and BUILDING REMOVAL NO. 2

2. REMOVAL AND DISPOSAL OF NON-FRIABLE ASBESTOS, BUILDING NO. 1 and REMOVAL AND DISPOSAL OF NON-FRIABLE ASBESTOS, BUILDING NO. 2

The Contractor shall have two options available for the removal and disposal of the non-friable asbestos.

The pay item for removal and disposal of non-friable asbestos will not be deleted regardless of the option chosen by the Contractor.

ASBESTOS ABATEMENT (GENERAL CONDITIONS): This work consists of the removal and disposal of non-friable asbestos from the building(s) to be demolished. All work shall be done according to the requirements of the U.S. Environmental Protection Agency (USEPA), the Illinois Environmental Protection Agency (IEPA), the Occupational Safety and Health Administration (OSHA), the Special Provision for "Removal and Disposal of Non-Friable Asbestos, Building No. 1," the Special Provision for "Removal and Disposal of Non-Friable Asbestos, Building No. 2," and as outlined herein.

Sketches indicating the location of Asbestos Containing Material (ACM) are included in the proposal on pages <u>92</u> thru <u>96</u>. Also refer to the Materials Description Table on pages <u>97-99</u> for a brief description and location of the various materials. Also included is a Materials Quantities Table on page <u>91</u>. This table states the ACM is non-friable and gives the approximate quantity. The quantities are given only for information and it shall be the Contractor's responsibility to determine the exact quantities prior to submitting his/her bid.

The work involved in the removal and disposal of non-friable asbestos if done prior to demolition, shall be performed by a Contractor or Sub-Contractor prequalified with the Illinois Capital Development Board.

The Contractor shall provide a shipping manifest, similar to the one shown on page <u>100</u>, to the Engineer for the disposal of all ACM wastes.

Permits: The Contractor shall apply for permit(s) in compliance with applicable regulations of the Illinois Environmental Protection Agency. Any and all other permits required by other federal, state, or local agencies for carrying on the work shall be the responsibility of the Contractor. Copies of the permit(s) shall be sent to the district office and the Engineer.

Notifications: The "Demolition/Renovation Notice" form, which can be obtained from the IEPA office, shall be completed and submitted to the address listed below at least 10 days prior to commencement of any asbestos removal or demolition activity. Separate notices shall be sent for the asbestos removal work and the building demolition if they are done as separate operations.

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

Asbestos Demolition/Renovation Coordinator Illinois Environmental Protection Agency Division of Air Pollution Control P. O. Box 19276 Springfield, Illinois 62794-9276 (217) 785-1743

Notices shall be updated if there is a change in the starting date or the amount of asbestos changes by more than 20 percent.

Submittals:

- A. All submittals and notices shall be made to the Engineer except where otherwise specified herein.
- B. Submittals that shall be made prior to start of work:
 - 1. Submittals required under Asbestos Abatement Experience.
 - Submit documentation indicating that all employees have had medical examinations and instruction on the hazards of asbestos exposure, on use and fitting of respirators, on protective dress, on use of showers, on entry and exit from work areas, and on all aspects of work procedures and protective measures as specified in Worker Protection Procedures.
 - 3. Submit manufacturer's certification stating that vacuums, ventilation equipment, and other equipment required to contain airborne fibers conform to ANSI 29.2.
 - 4. Submit to the Engineer the brand name, manufacturer, and specification of all sealants or surfactants to be used. Testing under existing conditions will be required at the direction of the Engineer.
 - 5. Submit proof that all required permits, site locations, and arrangements for transport and disposal of asbestos-containing or asbestos-contaminated materials, supplies, and the like have been obtained (i.e., a letter of authorization to utilize designated landfill).
 - 6. Submit a list of penalties, including liquidated damages, incurred through non-compliance with asbestos abatement project specifications.
 - 7. Submit a detailed plan of the procedures proposed for use in complying with the requirements of this specification. Include in the plan the location and layout of decontamination units, the sequencing of work, the respiratory protection plan to be used during this work, a site safety plan, a disposal plan including the location of an approved disposal site, and a detailed description of the methods to be used to control pollution. The plan shall be submitted to the Engineer prior to the start of work.

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

8. Submit proof of written notification and compliance with the "Notifications" paragraph.

C. Submittals that shall be made upon completion of abatement work:

- 1. Submit copies of all waste chain-of-custodies, trip tickets, and disposal receipts for all asbestos waste materials removed from the work area;
- 2. Submit daily copies of work site entry logbooks with information on worker and visitor access:
- 3. Submit logs documenting filter changes on respirators, HEPA vacuums, negative pressure ventilation units, and other engineering controls; and
- 4. Submit results of any bulk material analysis and air sampling data collected during the course of the abatement including results of any on-site testing by any federal, state, or local agency.

Certificate of Insurance:

- A. The Contractor shall document general liability insurance for personal injury, occupational disease and sickness or death, and property damage.
- B. The Contractor shall document current Workmen's Compensation Insurance coverage.
- C. The Contractor shall supply insurance certificates as specified by the Department.

Asbestos Abatement Experience:

A. Company Experience. Prior to starting work, the Contractor shall supply evidence that he/she has been prequalified with the Illinois Capital Development Board and that he/she has been included on the Illinois Department of Public Health's list of approved Contractors.

B. Personnel Experience:

- For Superintendent, the Contractor shall supply:
 - a. Evidence of knowledge of applicable regulations in safety and environmental protection is required as well as training in asbestos abatement as evidenced by the successful completion of a training course in supervision of asbestos abatement as specified in 40 CFR 763, Subpart E, Appendix C, EPA Model Contractor Accreditation Plan. A copy of the certificate of successful completion shall be provided to the Engineer prior to the start of work.
 - b. Documentation of experience with abatement work in a supervisory position as evidenced through supervising at least two asbestos abatement projects; provide names, contact, phone number, and locations of two projects in which the individual(s) has worked in a supervisory capacity.

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

2. For workers involved in the removal of asbestos, the Contractor shall provide training as evidenced by the participation and successful completion of an accredited training course for asbestos abatement workers as specified in 40 CFR 763, Subpart E, Appendix C, EPA Model Contractor Accreditation Plan. A copy of the certificate of successful completion shall be provided to all employees who will be working on this project.

ABATEMENT AIR MONITORING: The Contractor shall comply with the following:

- A. Personal Monitoring. All personal monitoring shall be conducted per specifications listed in OSHA regulation, Title 29, Code of Federal Regulation 1926.58. All area sampling shall be conducted according to 40 CFR Part 763.90. All air monitoring equipment shall be calibrated and maintained in proper operating condition. Excursion limits shall be monitored daily. Personal monitoring is the responsibility of the contractor. Additional personal samples may be required by the Engineer at any time during the project.
- B. Interior Non-Friable Asbestos-Containing Materials. The contractor shall perform personal air monitoring during removal of all non-friable Transite and floor tile removal operations. The Engineer will also have the option to require additional personal samples and/or clearance samples during this type of work.
- C. Exterior Non-Friable Asbestos-Containing Materials. The contractor shall perform personal air monitoring during removal of all non-friable cementitious panels, piping, roofing felts, and built up roofing materials that contain asbestos.

The contractor shall conduct down wind area sampling to monitor airborne fiber levels at a frequency of no less than three per day.

D. Air Monitoring Professional

- All air sampling shall be conducted by a qualified Air Sampling Professional supplied by the contractor. The Air Sampling Professional shall submit documentation of successful completion of the National Institute for Occupational Safety and Health (NIOSH) course #582 - "Sampling and Evaluating Airborne Asbestos Dust".
- 2. Air sampling shall be conducted according to NIOSH Method 7400. The results of these tests shall be provided to the Engineer within 24 hours of the collection of air samples.

REMOVAL AND DISPOSAL OF NON-FRIABLE ASBESTOS, BUILDING NO. 1 and REMOVAL AND DISPOSAL OF NON-FRIABLE ASBESTOS, BUILDING NO. 2: The Contractor has the option of removing and disposing of the non-friable asbestos prior to demolition of the building(s) or demolishing the building(s) with the non-friable asbestos in place.

Option #1 - If the Contractor chooses to remove all non-friable asbestos prior to demolition, the work shall be done according to the Special Provision titled "Asbestos Abatement (General Conditions)".

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

Option #2 - If the Contractor chooses to demolish the building(s) with the non-friable asbestos in place, the following provisions shall apply:

- 1. Continuously wet all non-friable ACM and other building debris with water during demolition.
- 2. Dispose of all demolition debris as asbestos containing material by placing it in lined, covered transport haulers and placing it in an approved landfill.

This work will be paid for at the contract unit price per lump sum for REMOVAL AND DISPOSAL OF NON-FRIABLE ASBESTOS, BUILDING NO. 1 and REMOVAL AND DISPOSAL OF NON-FRIABLE ASBESTOS, BUILDING NO. 2, as shown.

The cost for this work shall be determined as follows:

Option #1 - Actual cost of removal and disposal of non-friable asbestos.

Option #2 - The difference in cost between removing and disposing of the building if all non-friable asbestos is left in place and removing and disposing of the building assuming all non-friable asbestos is removed prior to demolition.

The cost of removing and disposing of the building(s), assuming all non-friable asbestos is removed first, shall be represented by the pay items "BUILDING REMOVAL NO. $\underline{1}$ " and "BUILDING REMOVAL NO. $\underline{2}$."

Regardless of the option chosen by the Contractor, this pay item will not be deleted, nor will the pay items BUILDING REMOVAL NO. 1 or BUILDING REMOVAL NO. 2 be deleted.

FAI-80/94

Local Road Reconstruction

Sec.: Co.:

2001-167R Cook

SECTION 1

1.2 Results Summary

ACM SURVEY RESULTS - PARCEL NO.: 0ED1119 2560 Bernice Avenue, Lansing, Illinois

The following homogeneous building material types were sampled as part of this survey and their results are summarized in the table below:

MTL GROUP#	MATERIAL DESCRIPTION	LOCATION	F/NF ¹	COND. ²	% ACM ³	# SAMP.	QUANTITY ENGLISH/ METRIC
01-01 01-02 01-03	Drywall	Main Office E. Wall 2 nd Fl S.E. Room E. Wall 2 nd Fl S.E. Room S. Wall 2 nd Fl	NF NF NF	Good Good Good	ND ND ND	3	21,000 S.F. 1953 m ²
02-04 02-05 02-06	White 2'x4' Ceiling Tiles	S.W. Room 2 nd Kitchen 1 st FI S.E. Room 1 st FI	NF NF NF	Good Good Good	ND ND ND	3	2,600 S.F. 241.8 m ²
03-07 03-08 03-09	Brown Vinyl Base Cove	Main Office 2 nd FI N.W. Room 2 nd FI S.W. room 1 st FI	NF NF NF	Fair Fair Fair	ND ND ND	3	2,600 L.F. 792.48 m
03-07m 03-08m 03-09m	Brown Base Cove - Mastic	Main Office 2 nd FI N.W. Room 2 nd FI S.W. Room 1 st FI	NF NF NF	Good Good Good	ND ND ND	3	2,600 L.F. 792.48 m
04-10 04-11 04-12	Carpet Mastic	1 st Floor Hall 1 st Floor S.E. Room 2 nd Floor S.W. Room	NF NF NF	Good Good Good	ND ND ND	3	2,600 S.F. 241.8 m ²
05-13 05-14 05-15	Tan 12"x12" Floor Tile	1st Floor S.E. Room 1st Floor W. Room 1st Floor S.W. Room	NF NF NF	Poor Poor Poor	*1-5% By TEM Analysis	3	600 S.F. 55.8 m ²
05-13m 05-14m 05-15m	Tan 12"x12" Floor Tile - Mastic	1st Floor S.E. Room 1st Floor W. Room 1st Floor S.W. Room	NF NF N F	Poor Poor Poor	ND ND ND	3	600 S.F. 55.8 m ²
06-16 06-17 06-18	Brown 12" x 12" Floor Tile	Kitchen Bathroom 1 Bathroom 2	NF NF NF	Poor Poor Poor	ND ND ND	3	200 S.F. 18.6 m ²
06-16m 06-17m 06-18m	Brown 12" x 12" Floor Tile - Mastic	Kitchen Bathroom 1 Bathroom 2	. NF NF NF	Poor Poor Poor	ND ND ND	3	200 S.F. 18.6 m ²
07-19 07-20 07-21	Yellow Linoleum - Under Brown 12"x12" Floor Tile	Kitchen Bathroom 1 Bathroom 2	NF NF NF	Good Good Good	*1-5% By TEM Analysis	3	200 S.F. 18.6 m ²
07-19m 07-20m 07-21m	Yellow Linoleum - Mastic Under Brown 12"x12" Floor Tile	Kitchen Bathroom 1 Bathroom 2	NF NF NF	Good Good Good	ND ND ND	3	200 S.F. 18.6 m ²
08-22 08-23 08-24	Roof Field	Roof Flat N. Roof Flat E. Roof Flat W.	NF NF NF	Fair Fair Fair	ND ND ND	3	2,500 S.F. 232.5 m ²
09-25 09-26 09-27	Roof Flashing	Roof N. Side Roof E. Side Roof W. Side	NF NF NF	Fair Fair Fair	5%-10% NA NA	3	3,000 L.F. 914.40 m
TOTAL QUANTITY OF ACM							

Friability is further defined in section 4. Either good, fair or poor.

F = Friable; NF = Nonfriable Cond. = Condition Of Materials ND = None Detected

*TEM = Electron Microscopy

91

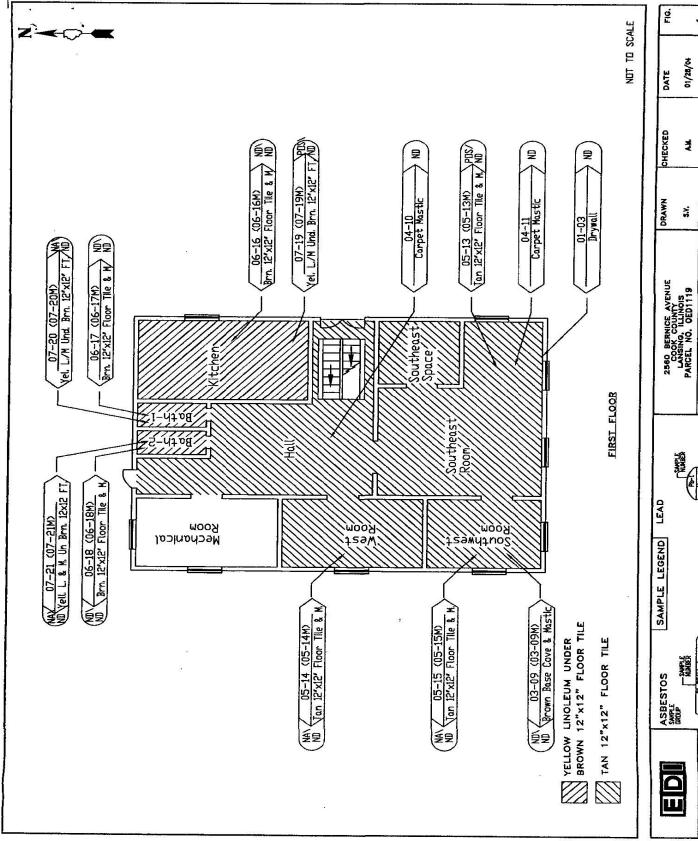
NA = Not Analyzed

FAI-80/94

Local Road Reconstruction

2001-167R Cook

Sec.: Co.:



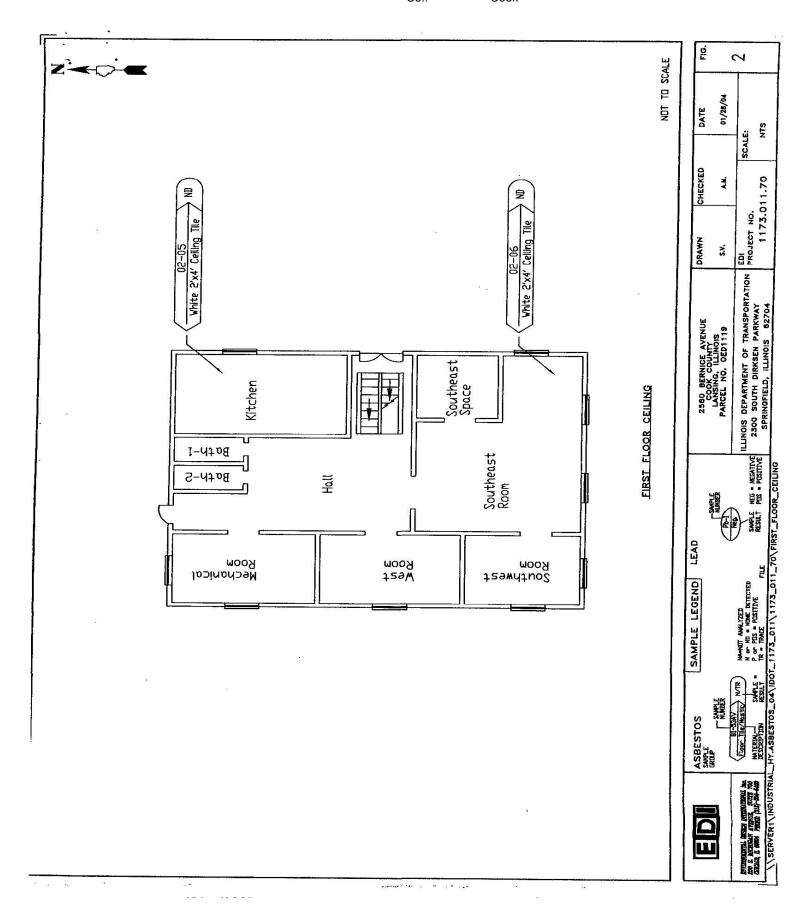
FAI-80/94

Local Road Reconstruction

2001-167R

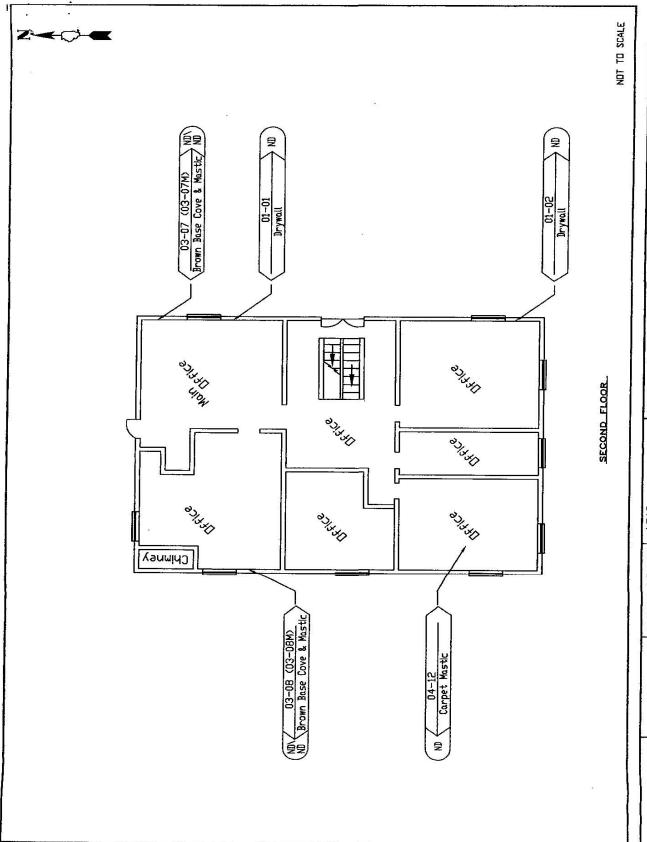
Sec.: Co.:

Cook



Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook



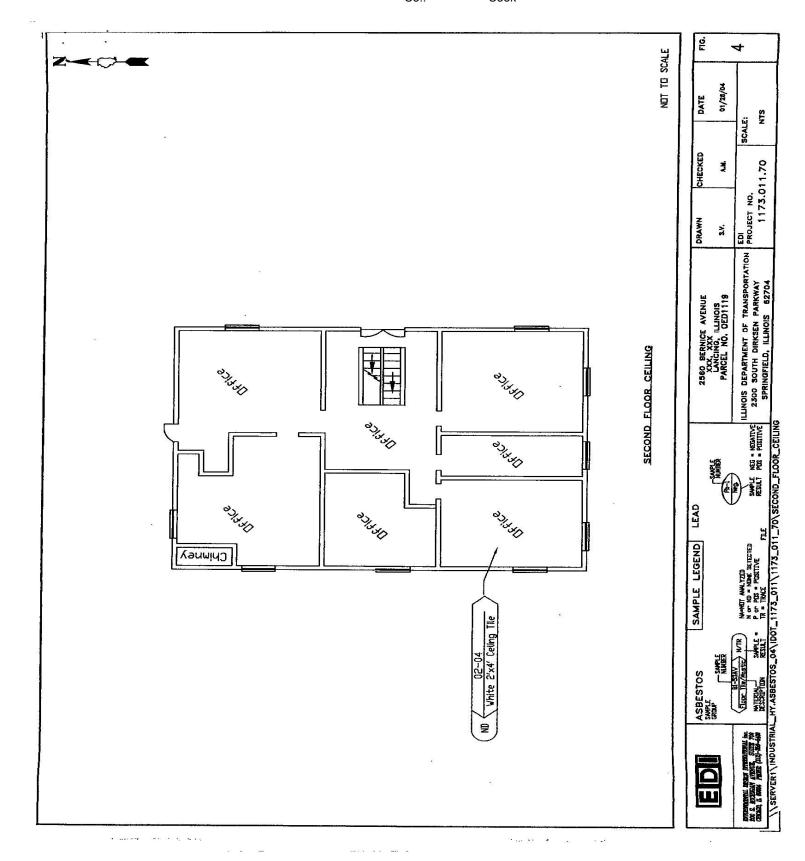
FAI-80/94

Local Road Reconstruction

2001-167R

Sec.: Co.:

Cook

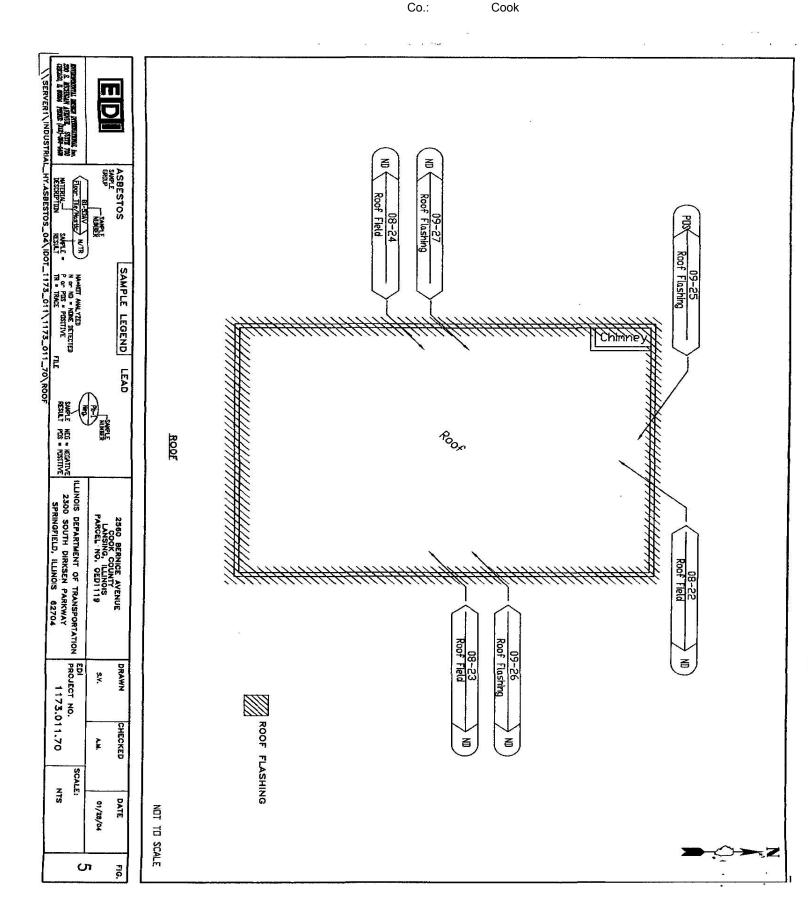


FAI-80/94 Local Road Reconstruction

2001-167R

Sec.:

Cook



Rte.:

FAI-80/94

Cook

Desc:

Local Road Reconstruction

Sec.: Co.: 2001-167R

Betla Donna Labs, Inc.

NVLAP Accredited# 101868-0

200 S. Michigan Ave. Chicago, IL 60604

LABORATORY ANALYSIS REPORT

BATCH# 500695

Bulk Asbestos Identification

Client Client Re	ference	1173.	011.70	Site Send	Site 2560 Bernice Avenue, Lansing Sender Edward P. Wagner			
Date Colle	ected 0	1/14/20	004 by Joseph An 004 by Edward P. 116, using Polariz		0.50 ±0 ±00.00 400.00			ph Anzlovar ssa Gilmore
Field #	Lab #	Asb Dete- cted	% Asbestos	% Fibrous Material	% NonFibrous Material	Ho- mo- gen.	Color	Description, Location
1-01	1	No		Fibrous Glass 1 - 5 Cellulose 25 - 30	Binder 65		White Brown	Main Office East Wal Drywall
1-02	2	No		Fibrous Glass 1 - 5 Cellulose 25 - 30	Binder 65		White Brown	SE Room East Wall Drywall
1-03	3	No		Fibrous Glass 1 - 5 Cellulose 25 - 30	Binder 65		White Brown	SE Room South Wall Drywall
2-04	4	No		Fibrous Glass 35 - 40 Cellulose 35 - 40	Binder 20		White Gray	SW Room White 2'x4' ceiling tiles
2-05	5	No		Fibrous Glass 35 - 40 Cellulose 35 - 40	Binder 20		White Gray	Kitchen White 2'x4' ceiling tiles
2-06	6	No		Fibrous Glass 35 - 40 Cellulose 35 - 40	Binder 20		White Gray	SE Room White 2'x4' ceiling tiles
3-07	7	No	-		Binder 100	Yes	Brown	Main Office Brown base cove
3-08	8	No			Binder 100	Yes	Brown	NW Room Brown base cove
3-09	9	No			Binder 100	Yes	Brown	SW Room Brown base cove
3-07m	10	No		Cellulose 1 - 5	Binder 95	Yes	Brown	Main Office Brown base cove mastic
3-08m	11	No		Cellulose 1 - 5	Binder 95	Yes	Brown	NW Room Brown base cove mastic
3-09m	12	No		Cellulose 1 - 5	Binder 95	Yes	Brown	SW Room Brown base cove mastic
4-10	13	No		Cellulose 1 - 5	Binder 95	Yes	Brown	1st Floor Hall Carpet mastic
4-11	14	No		Cellulose 1 - 5	Binder 95	Yes	Brown	1st Floor SE Room Carpet mastic
4-12	15	No	44	Cellulose 1 - 5	Binder 95	Yes	Brown	2nd Floor SW Room Carpet mastic
5-13	16	No			Binder 100	Yes	Tan	1st Floor SE Room Tan 12"x12" floor tile
5-14	17	No		1 PAS 1 1.	Binder 100	Yes	Tan	1st Floor West Room Tan 12"x12"

Note This report summarizes the analytical results for the bulk material samples submitted for asbestos identification. Analysis of sample was performed in accordance with the Method #EPA-600/R-93/116 utilizing polarized light microscopy with dispersion staining. This report relates only to the items tested and must not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. This report shall not be reproduced, except in full, and only with written approval of the laboratory.

ANALIST COMPA

Page 1

Rte.:

FAI-80/94

Desc: Sec.:

Local Road Reconstruction

2001-167R Cook Co.:

LABORATORY ANALYSIS REPORT

BATCH# 500695

Bulk Asbestos Identification

Client	•			Site	2560 Bernice	Avenue	Lansin	na
Client Refe	erence	1173.	.011.70	Sen				· ʊ
Date Colle	cted 0	1/14/20	004 by Joseph Ar 004 by Edward P 116, using Polariz		e Analyzed 01/13 e Reported 01/15			ph Anzlovar ssa Gilmore
Field #	Lab #	Asb Dete- cted	% Asbestos	% Fibrous Material	% NonFibrous Material	Ho- mo- gen.	Color	Description, Location
								floortile
5-15	18	No			Binder 100	Yes	Tan	1st Floor SW Room Tan 12"x12" floor tile
5-13m	19	No		Cellulose 1 - 5	Binder 95	Yes	Yellow	1st Floor SE Room Tan 12*x12** floor tile mastic
5-14m	20	No		Cellulose 1 - 5	Binder 95	Yes	Yellow	1st Floor West Room Tan 12"x12" floor tile mastic
5-15m	21	No		Cellulose 1 - 5	Binder 95	Yes	Yellow	1st Floor SW Room Tan 12"x12" floor tile mastic
6-16	22	No			Binder 100	Yes	Brown	Kitchen Brown 12"x12" floor tile
6-17	23	No			Binder 100	Yes	Brown	Bathroom 1 Brown 12"x12" floor tile
6-18	24	No			Binder 100	Yes	Brown	Bathroom 2 Brown 12"x12" floor tile
6-16m ,	25	No		Cellulose 1 - 5	Binder 95	Yes	Yellow	Kitchen Brown 12"x12" floor tile mastic
6-17m	26	No		Cellulose 1 - 5	Binder 95	Yes	Yellow	Bathroom 1 Brown 12"x12" floor tile mastic
6-18m	27	No		Cellulose 1 - 5	Binder 95	Yes	Yellow	Bathroom 2 Brown 12"x12" floor tile mastic
7-19	28	No			Binder 100	Yes	Brown	Kitchen Yellow lino under brown 12*x12* floor tile
7-20	29	No			Binder 100	Yes	Brown	Bathroom 1 Yellow line under brown 12"x12" floor t
7-21	30	No			Binder 100		Brown	Bathroom 2 Yellow lino under brown 12"x12" floor t
7-19m	31	No		Cellulose 1 - 5	Binder 95	Yes	Yellow	Kitchen Yellow lino under brown 12*x12* floor tile
7-20m	32	No	380014	Cellulose 1 - 5	Binder 95	Yes	Yellow	Bathroom 1 Yellow lino under brown 12"x12" floor t
7-21m	33	No		Cellulose 1 - 5	Binder 95	Yes	Yellow	Bathroom 2 Yellow lino under

Note This report summarizes the analytical results for the bulk material samples submitted for asbestos identification. Analysis of sample was performed in accordance with the Method #EPA-600/R-93/116 utilizing polarized light microscopy with dispersion staining. This report relates only to the items tested and must not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. This report shall not be reproduced, except in full, and only with written approval of the laboratory.

Page 2

Rte.:

FAI-80/94

Cook

Desc:

Local Road Reconstruction

Sec.: Co.: 2001-167R

LABORATORY ANALYSIS REPORT

BATCH# 500695

Bulk Asbestos Identification

Client Client Reference 1173.011.70					Site 2560 Bernice Avenue, Lansing Sender Edward P. Wagner				
Date Colle	ected 0	1/14/20	004 by Joseph Anzl 004 by Edward P. W 116, using Polarized	Vagner Date	Analyzed 01/13/ Reported 01/15/		- 100 POR 100	12 10 × 10 × 10 × 10 × 10 × 10 × 10 × 10 ×	
Field #	Lab #	Asb Dete- cted	% Asbestos	% Fibrous Material	% NonFibrous Material	Ho- mo- gen.	Color	Description, Location	
3.0 To								brown 12"x12" floor t	
8-22	34	No		Fibrous Glass 10 - 15 Cellulose 10 - 15	Binder 70		Black	Roof Flat North Roof Field	
3-23	35	No		Fibrous Glass 10 - 15 Cellulose 10 - 15	Binder 70		Black	Roof Flat East Roof Field	
3-24	36	No		Fibrous Glass 10 - 15 Cellulose 10 - 15	Binder 70		Black	Roof Flat West Roof Field	
9-25	37	Yes	Chrysotile 5 - 10	Fibrous Glass 5 - 10 Cellulose 5 - 10	Binder 70	Yes	Black	Roof North Side Roof Flashing	

Note This report summarizes the analytical results for the bulk material samples submitted for asbestos identification. Analysis of sample was performed in accordance with the Method #EPA-600/R-93/116 utilizing polarized light microscopy with dispersion staining. This report relates only to the items tested and must not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. This report shall not be reproduced, except in full, and only with written approval of the laboratory.

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Page 3

FAI-80/94 Rte.:

Local Road Reconstruction 2001-167R Desc:

Sec.: Co.: Cook

<u>APPENDIX D</u> SHIPPING MANIFEST Generator

1.	Work Site Name and Mailing Address	Owner's Name		Owner's
	-			Telephone No.
2.	Operator's Name and Address			Operator's.
	•			Telephone No
3.	Waste Disposal Site (WDS) Name			WDS
	Mailing Address, and Physical			Telephone No.
	Site Location			
4.	Name and Address of Responsible Agend	су		
5.	Description of Materials			
6.	Containers	No.	Туре	
7.	Total Quantity	M ³	(Yd ³)	
8.	Special Handling Instructions and Additio	nal Inform	ation	
9.	OPERATOR'S CERTIFICATION: I hereb	v declare	that the cont	ents of this
	consignment are fully and accurately des			
	name and are classified, packed, marked			
	in proper condition for transport by highway	ay accordi	ng to applica	ble international
	and government regulations.			
Pr	rinted/Typed Name & Title	Sigr	nature	Month Day Year
	Tr	ansporter		
10). Transporter 1 (Acknowledgement of Red	ceipt of Ma	iterials)	
	Printed/Typed Name & Title	Sigr	nature	Month Day Year
	Address and Telephone No.			
11	I. Transporter 2 (Acknowledgement of Red	ceipt of Ma	iterials)	
	Printed/Typed Name & Title		nature	Month Day Year
	Address and Telephone No.			
		sposal Site	<u> </u>	
	2. Discrepancy Indication Space			
13	3. Waste Disposal Site Owner or Operator			
				y This Manifest
			s Noted in It	
Pr	rinted/Typed Name & Title	Sign	nature	Month Day Year

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

APPENDIX D

INSTRUCTIONS

Waste Generator Section (Items 1-9)

- 1. Enter the name of the facility at which asbestos waste is generated and the address where the facility is located. In the appropriate spaces, also enter the name of the owner of the facility and the owner's phone number.
- 2. If a demolition or renovation, enter the name and address of the Company and authorized agent responsible for performing the asbestos removal. In the appropriate spaces, also enter the phone number of the operator.
- Enter the name, address, and physical site location of the waste disposal site (WDS) that
 will be receiving the asbestos materials. In the appropriate spaces, also enter the phone
 number of the WDS. Enter "on-site" if the waste will be disposed of on the generator's
 property.
- 4. Provide the name and address of the local, State, or EPA Regional Office responsible for administering the asbestos NESHAP program.
- 5. Indicate the types of asbestos waste materials generated. If from a demolition or renovation, indicate the amount of asbestos that is
 - Friable asbestos material
 - Nonfriable asbestos material
- 6. Enter the number of containers used to transport the asbestos materials listed in Item 5. Also enter one of the following container codes used in transporting each type of asbestos material (specify any other type of container used if not listed below):
 - DM Metal drums, barrels
 - DP Plastic drums, barrels
 - BA 6 mil plastic bags or wrapping
- 7. Enter the quantities of each type of asbestos material removed in units of cubic meters (cubic yards).
- 8. Use this space to indicate special transportation, treatment, storage or disposal or Bill of Lading information. If an alternate waste disposal site is designated, note it here. Emergency response telephone numbers or similar information may be included here.
- 9. The authorized agent of the waste generator shall read and then sign and date this certification. The date is the date of receipt by transporter.

NOTE: The waste generator shall retain a copy of this form.

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

APPENDIX D

INSTRUCTIONS

<u>Transporter Section</u> (Items 10 & 11)

10. & 11. Enter name, address, and telephone number of each transporter used, if applicable. Print or type the full name and title of person accepting responsibility and acknowledging receipt of materials as listed on this waste shipment record for transport.

NOTE: The transporter shall retain a copy of this form.

Disposal Site Section (Items 12 & 13)

- 12. The authorized representative of the WDS shall note in this space any discrepancy between waste described on this mainfest and waste actually received as well as any improperly enclosed or contained waste. Any rejected materials should be listed and destination of those materials provided. A site that converts asbestos-containing waste material to nonasbestos material is considered a WDS.
- 13. The signature (by hand) of the authorized WDS agent indicates acceptance and agreement with statements on this manifest except as noted in Item 12. The date is the date of signature and receipt of shipment.

NOTE: The WDS shall retain a completed copy of this form. The WDS shall also send a completed copy to the operator listed in Item 2.

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

ADJUSTING FRAMES AND GRATES (BDE)

Effective: August 1, 2001 Revised: November 1, 2001

Add the following to Article 602.02 of the Standard Specifications:

"(k)	High Density Polyethylene (HDPE) Plastic	Note 2
(l)	Recycled Rubber	Note 3

Note 2. HDPE plastic adjusting rings may be used to adjust the frames and grates of drainage and utility structures up to a maximum of 75 mm (3 in.). They shall be installed and sealed underneath the frames according to the manufacturer's specifications.

HDPE plastic adjusting rings shall be manufactured from Class B HDPE plastic, as identified in ASTM D 1248, using the injection molding process. They shall be designed and tested to meet or exceed an HS25 wheel load according to the AASHTO Standard Specifications for Highway Bridges and shall be stabilized against the effects of ultra violet light.

Recycled material may be used. If recycled material is used, only polyethylene and less than two percent polypropylene will be allowed in the reclaim process. All feed stock shall be tested by the manufacturer on a procurement/production batch basis to verify the following property values:

Physical Property	Test Standard	Value
Melt Flow Index	ASTM D 1238	0.30 to 30.0 g/10 min (0.01 to 1.06 oz/10 min)
Specific Gravity	ASTM D 792	0.84 to 0.98
Tensile Strength, Yield	ASTM D 638	13,800 kPa (2000 psi) minimum

HDPE plastic adjusting rings shall have no void areas, cracks, or tears, and have no effects due to exposure to ultraviolet light. Ripples or sags are limited to less than ten percent of the surface. The actual diameter or length shall not vary more than 3 mm (0.125 in.) from the specified diameter or length. Variations in height are limited to \pm 1.6 mm (0.063 in.) for parts up to 50 mm (2 in.) or \pm 3 mm (0.125 in.) for parts from 50 mm (2 in.) to 75 mm (3 in.). Variations shall not exceed 6 mm (0.25 in.) from flat (dish, bow or convoluting edge) or 3 mm (0.125 in.) for bulges or dips in the surface.

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

Note 3. Riser rings fabricated from recycled rubber may be used to adjust the frames and grates of drainage and utility structures up to a maximum of 50 mm (2 in.). They shall be installed and sealed underneath the frames according to the manufacturer's specifications.

Recycled rubber products shall consist of no less than 80 percent by weight recycled rubber. The riser shall meet or exceed the following when maintained at $23 \pm 2^{\circ}$ C (73 $\pm 3^{\circ}$ F) for at least 24 hours prior to and during testing.

	T		
Physical Property	Test Standard	Value	
Density	ASTM C 642-90	1.10 ± 0.034 g/cu cm (68.63 ± 2.11 lb/cu ft)	
Durometer Hardness	ASTM D 2240-97 Shore A	72 ± 6 ¹	
Compression Deformation under 1000 kPa (145 psi)	ASTM D 575 –Test Method B Test of Specified Force	9 ± 4 %	
Compression Set	ASTM D 395 – Illinois Modified Test Method B Compression Set under Constant Deflection in Air	5 ± 3 % ²	
Weathering (70 hrs at 70 °C (158 °F)) Hardness retained	ASTM D 573	98 %, minimum	
Freeze/thaw when exposed to deicing chemicals	ASTM C 672-91	3 % loss, maximum	

¹Average of three tests over a 28 mm (1.12 in.) diameter sample.

Recycled rubber adjusting rings shall have no void areas, cracks, or tears, and have no effects due to exposure to ultraviolet light. The actual diameter or length shall not vary more than 3 mm (0.125 in.) from the specified diameter or length. Variations in height are limited to \pm 1.6 mm (0.063 in.) for parts up to 50 mm (2 in.)."

² Samples compressed to 75 percent of initial height.

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

Revise Article 603.08 of the Standard Specifications to read:

"603.08 Adjusting Rings. As an option to Articles 603.03 through 603.07, the adjustment of frames and grates may be accomplished through the use of adjusting rings that fit on top of the frame. These adjusting rings shall be fabricated as a one-piece assembly from gray iron, ductile iron or structural steel. They shall provide a structural capacity equal to or greater than the existing frame and shall not affect the opening size or surface appearance. The rings shall have a device for positively positioning and fastening the ring to the existing frame to prevent movement under traffic."

80052

BITUMINOUS BASE COURSE / WIDENING SUPERPAVE

Effective: April 1, 2002 Revised: April 1, 2004

<u>Description</u>. This work shall consist of constructing bituminous base course Superpave and bituminous concrete base course widening Superpave according to Sections 355 and 356 respectively, of the Standard Specifications and the special provision, "Quality Control/Quality Assurance of Bituminous Concrete Mixtures" except as modified herein.

Revise Article 355.02(d) of the Standard Specifications to read:

(d) RAP Material (Note3)"

Revise Note 2 of Article 355.02 of the Standard Specifications to read:

Note 2. Unless otherwise specified on the plans, the bituminous material shall be performance graded (PG) asphalt cement (AC), PG58-22. When more than 15 percent RAP is used, a softer PG binder may be required as determined by the Engineer. When the pavement has a structural number (D_t) of 3.00 or less, the low temperature grade of the asphalt cement shall be lowered one grade (i.e. PG58-28 replaces PG58-22)."

Add the following to the end Article 355.02 of the Standard Specifications:

" Note 3. RAP shall meet the requirements of the special provision "RAP for Use in Bituminous Concrete Mixtures"."

Revise Article 355.05 of the Standard Specifications to read:

"355.05 Mixture Design. The Contractor shall submit mix designs for approval, for each required mixture. Mix designs shall be developed by Level III personnel who have completed the course, "Superpave Mix Design Upgrade". The mixtures shall be designed according to the respective Illinois Modified AASHTO references listed below:

AASHTO MP 2 Standard Specification for Superpave Volumetric Mix Design

AASHTO R 30Standard Practice for Mixture Conditioning of Hot-Mix Asphalt (HMA)

AASHTO PP 28 Standard Practice for Designing Superpave HMA

Desc: Local Road Reconstruction

Sec.: 2001-167R Cook Co.:

AASHTO T 209 Theoretical Maximum Specific Gravity and Density of Bituminous Paving Mixtures

AASHTO T 312 Preparing and Determining the Density of Hot Mix Asphalt (HMA) Specimens by Means of the Superpave Gyratory Compactor

AASHTO T 308 Determining the Asphalt Content of Hot Mix Asphalt (HMA) by the Ignition Method

Job Mix Formula (JMF). The JMF shall be according to the following limits: (a)

Percent by Dry Weight Ingredient

Aggregate 93.0 to 96.0 Asphalt Cement 4.0 to 7.0

Dust/AC Ratio 1.4

When RAP material is being used, the JMF shall be according to the following limits:

Ingredient Percent by Dry Weight Virgin Aggregate(s) 46.0 to 96.0 RAP Material(s) (Note 1) 0 to 50 Mineral Filler (if required) 0 to 5.0 **Asphalt Cement** 4.0 to 7.0 Dust/AC Ratio 1.4

Note 1. If specified on the plans, the maximum percentage of RAP shall be as specified therein.

It is recommended that the selected combined aggregate gradation not pass through the restricted zones specified in Illinois Modified AASHTO MP 2.

Bituminous concrete binder course Superpave mixture IL-25.0 or IL-19.0 meeting the requirements of the special provision, "Superpave Bituminous Concrete Mixtures" may also be used. The minimum compacted lift thickness specified therein shall apply.

(b) Volumetric Requirements.

Design Compactive Effort	Design Air Voids Target (%)
N _{DES} =50	2.0

Determination of Need for Anti-Stripping Additive. The mixture designer shall determine if an additive is needed in the mix to prevent stripping. The determination will be made on the basis of tests performed according to Illinois Modified AASHTO T 283 using 4 in. Marshall bricks. To be considered acceptable by the Engineer as a mixture not susceptible to stripping, the ratio of conditioned to unconditioned split tensile strengths (TSR) shall be equal to or greater than 0.75. Mixtures, either with or without an additive, with TSR values less than 0.75 will be considered unacceptable.

If it is determined that an additive is required, the additive may be hydrated lime, slaked quicklime, or a liquid additive, at the Contractor's option. The liquid additive shall be selected

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

from the Department's list of approved additives and may be limited to those which have exhibited satisfactory performance in similar mixes.

Dry hydrated lime shall be added at a rate of 1.0 to 1.5 percent by weight of total dry aggregate. Slurry shall be added in such quantity as to provide the required amount of hydrated lime solids by weight of total dry aggregate. The exact rate of application for all anti-stripping additives will be determined by the Engineer. The method of application shall be according to Article 406.12 of the Standard Specifications."

Revise Article 355.06 of the Standard Specifications to read:

"355.06 Mixture Production. The asphalt cement shall be transferred to the asphalt tanks and heated to a temperature of 120 °C (250 °F) to 175 °C (350 °F). If the loading temperature exceeds 175 °C (350 °F), the asphalt shall not be used until it has cooled to 175 °C (350 °F). Wide variations in temperature which affect the amount of asphalt delivered will not be permitted.

When a hot-mix plant conforming to Article 1102.01 is used, the aggregate shall be dried and heated in the revolving dryer to a temperature of 120 °C (250 °F) to 175 °C (350 °F).

The aggregate and bituminous material used in the bituminous aggregate mixture shall be measured separately and accurately by weight or by volume. When the aggregate is in the mixer, the bituminous material shall be added and mixing continued for a minimum of 30 seconds and until a homogeneous mixture is produced in which all particles of the aggregate are coated. The mixing period, size of the batch and the production rate shall be approved by the Engineer.

The ingredients shall be heated and combined in such a manner as to produce a mixture which, when discharged from the mixer, shall be workable and vary not more 10 °C (20 °F) from the temperature set by the Engineer.

When RAP material(s) is used in the bituminous aggregate mixture, the virgin aggregate(s) shall be dried and heated in the dryer to a temperature that will produce the specified resultant mix temperature when combined with the RAP material.

The heated virgin aggregates and mineral filler shall be combined with RAP material in such a manner as to produce a bituminous mixture which when discharged from the mixer shall not vary more than 15 °C (30 °F) from the temperature set by the Engineer. The combined ingredients shall be mixed for a minimum of 35 seconds and until a homogeneous mixture as to composition and temperature is obtained. The total mixing time shall be a minimum of 45 seconds consisting of dry and wet mixing. Variation in wet and dry mixing times may be permitted, depending on the moisture content and amount of salvaged material used. The mix temperature shall not exceed 175 °C (350 °F). Wide variations in the mixture temperature will be cause for rejection of the mix.

- (a) Personnel. The QC Manager and Level I Technician shall have successfully completed the Department's "Superpave Field Control Course".
- (b) Required Tests. Testing shall be conducted to control the production of the bituminous mixture using the test methods identified and performed at a frequency not less than indicated in the following table.

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

Parameter	Frequency of Tests	Test Method
	Non-Class I Mixtures	
Aggregate Gradation	1 gradation per day of production.	Illinois
		Procedure (See
Hot bins for batch and	The first day of production shall be	Manual of Test
continuous plants.	washed ignition oven test on the mix.	Procedures for
	Thereafter, the testing shall alternate	Materials).
Individual cold-feeds or	between dry gradation and washed	
combined belt-feed for	ignition oven test on the mix.	
drier-drum plants.	The dry gradation and the washed ignition	
(0/ passing solves:	The dry gradation and the washed ignition oven test results shall be plotted on the	
(% passing seives: 12.5 mm (1/2 ln.),	same control chart.	
4.75 mm (No. 4),	Same control chart.	
75 µm (No. 200))		
7 ο μπ (110. 200))		
Asphalt Content by		Illinois-Modified
ignition oven (Note 1.)	1 per day	AASHTO T 308
Air Voids		
Bulk Specific Gravity of	1 per day	Illinois-Modified
Gyratory Sample		AASHTO T 312
Maximum Specific	1 per day	Illinois-Modified
Gravity of Mixture	i pei uay	AASHTO T 209
Cravity of Mixture		70 (01110 1 209

Note 1. The Engineer may waive the ignition oven requirement for AC content if the aggregates to be used are known to have ignition AC content calibration factors which exceed 1.5 percent. If the ignition oven requirement is waived, other Department approved methods shall be used to determine AC content.

During production, the ratio of minus 75 μ m (#200) sieve material to total asphalt cement shall be not less than 0.6 nor more than 1.6, and the moisture content of the mixture at discharge from the mixer shall not exceed 0.5 percent. If at any time the ratio of minus 75 μ m (#200) material to asphalt or moisture content of the mixture falls outside the stated limits, production of the mix shall cease. The cause shall be determined and corrective action satisfactory to the Engineer shall be initiated prior to resumption of production.

During production, mixture containing an anti-stripping additive will be tested by the Engineer for stripping according to Illinois Modified AASHTO T 283. If the mixture fails to meet the TSR criteria for acceptance, no further mixture will be accepted until the Contractor takes such action as is necessary to furnish a mixture meeting the criteria.

(c) Control Charts/Limits. Control charts/limits shall be according to QC/QA requirements for Non-Class I Mixtures, except air voids shall be plotted on the control charts within the following control limits:

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

Air Void Control Limits	
Mixture	Individual Test
Shoulders	± 1.2 %
Others	± 1.2 %"

Revise Article 355.08 of the Standard Specifications to read:

" **355.08 Placing.** The bituminous mixture shall be placed with a spreading and finishing machine. The minimum compacted thickness of each lift shall be according to the following table:

Nominal	Maximum	Minimum	Compacted	
Aggregate Size	of Mixture	Lift Thickness		
CA 10 - 19 mm (3/4 in.)	57 mm (2 1/4 in.)		
CA 6 – 25 mm (l in.)	76 mm (3 in.)		

The maximum compacted thickness of each lift shall be 100 mm (4 in.). If the Contractor elects to substitute an approved vibratory roller for one of the required rollers, the maximum compacted thickness of the each lift, excluding the top lift, may be increased to 150 mm (6 in.) provided the required density is obtained.

The surface of each lift shall be clean and dry before succeeding lifts are placed."

Revise Article 355.13 of the Standard Specifications to read:

" 355.13 Basis of Payment. This work will be paid for at the contract unit price per square meter (square yard) for BITUMINOUS BASE COURSE SUPERPAVE of the thickness specified."

Revise Article 356.02 of the Standard Specifications to read:

" **356.02 Materials.** The materials for the bituminous concrete mixture shall meet the requirements of Article 355.02, be designed according to Article 355.05 and produced according to Article 355.06. Bituminous concrete binder course Superpave mixture IL-25.0 or IL-19.0 meeting the requirements of the special provision, "Superpave Bituminous Concrete Mixtures" may also be used. The minimum compacted lift thickness specified therein shall apply."

Revise the first paragraph of Article 356.06 of the Standard Specifications to read:

" **356.06 Base Course Widening.** The bituminous concrete mixture shall be transported according to Article 406.14."

Revise the second sentence of the fifth paragraph of Article 356.06 of the Standard Specifications to read:

" The minimum compacted thickness of each lift shall be according to the table shown in Article 355.08."

Revise the first paragraph of Article 356.11 of the Standard Specifications to read:

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

" **356.11 Basis of Payment**. Where the Department requires that bituminous concrete be used, this work will be paid for at the contract unit price per square meter (square yard) for BITUMINOUS CONCRETE BASE COURSE WIDENING SUPERPAVE of the thickness specified."

80065

BITUMINOUS CONCRETE SURFACE COURSE (BDE)

Effective: April 1, 2001 Revised: April 1, 2003

Replace the fourth paragraph of Article 406.23(b) of the Standard Specifications with the following:

"Mixture for cracks, joints, flangeways, leveling binder (machine method), leveling binder (hand method) and binder course in excess of 103 percent of the quantity specified by the Engineer will not be measured for payment.

Surface course mixture in excess of 103 percent of adjusted plan quantity will not be measured for payment. The adjusted plan quantity for surface course mixtures will be calculated as follows:

Adjusted Plan Quantity = $C \times Q$ quantity shown on the plans or as specified by the Engineer.

where C = metric:
$$C = \frac{G_{mb} \times 24.99}{U}$$
 English: $C = \frac{G_{mb} \times 46.8}{U}$

and where:

 G_{mb} = average bulk specific gravity from approved mix design.

U = Unit weight of surface course shown on the plans in kg/sq m/25 mm (lb/sq yd/in.), used to estimate plan quantity.

24.99 = metric constant.

46.8 = English constant.

If project circumstances warrant a new surface course mix design, the above equations shall be used to calculate the adjusted plan quantity for each mix design using its respective average bulk specific gravity."

80050

BUTT JOINTS (BDE)

Effective: April 1, 2004

Revise Article 406.18 of the Standard Specifications to read:

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

"406.18 Butt Joints. Butt joints shall be constructed according to the details shown on the plans. The surface removal shall be performed according to Section 440. Construction of butt joints shall not begin prior to beginning general operations on the project.

When butt joints are to be constructed under traffic, temporary ramps shall be constructed and maintained at both the upstream and downstream ends of the surface removal areas immediately upon completion of the surface removal operation. The temporary ramps shall be constructed by the following methods.

- (a) Temporary Bituminous Ramps. Temporary bituminous ramps shall have a minimum taper rate of 1:40 (V:H). The bituminous material used shall meet the approval of the Engineer. Cold-milled bituminous tailings will not be acceptable.
- (b) Temporary Rubber Ramps. Temporary rubber ramps shall only be used on roadways with permanent posted speeds of 45 mph or less. The ramps shall have a minimum taper rate of 1:30 (V:H). The leading edge of the rubber ramp shall have a maximum thickness of 6 mm (1/4 in.) and the trailing edge shall match the height of the adjacent pavement ± 6 mm (1/4 in.).

The rubber material shall conform to the following:

Property	Test Method	Requirement
Durometer Hardness, Shore A	ASTM D 2240	80 ±10
Tensile Strength	ASTM D 412	5500 kPa (800 psi) min.
Elongation, percent	ASTM D 412	100 min.
Specific Gravity	ASTM D 297	1.1-1.3
Brittleness	ASTM D 746	-40 °C (-40 °F)

The rubber ramps shall be installed according to the manufacturer's specifications and fastened with the anchors provided. Rubber ramps that fail to stay in place or create a traffic hazard shall be replaced immediately with temporary bituminous ramps at the Contractor's expense.

The temporary ramps shall be removed just prior to placing the proposed surface course. If work is suspended for the winter season prior to completion of surface course construction, precut but joints shall be filled to the elevation of the existing pavement surface with compacted bituminous concrete surface course or binder course."

80118

COARSE AGGREGATE FOR TRENCH BACKFILL, BACKFILL AND BEDDING (BDE)

Effective: April 1, 2001

Revised: November 1, 2003

Revise Article 208.02 of the Standard Specifications to read:

"208.02 Materials. Materials shall be according to the following Articles of Section 1000 – Materials:

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

- Note 1. The fine aggregate shall be moist to the satisfaction of the Engineer.
- Note 2. The coarse aggregate shall be wet to the satisfaction of the Engineer."

Revise the first sentence of the second paragraph of subparagraph (b) in Article 208.03 of the Standard Specifications to read:

"Any material meeting the requirements of Articles 1003.04 or 1004.06 which has been excavated from the trenches shall be used for backfilling the trenches."

Add the following to the end of Article 542.02 of the Standard Specifications:

"(bb) Fine Aggregate (Note 1)	1003.04
(cc) Coarse Aggregate (Note 2)	1004.06

- Note 1. The fine aggregate shall be moist to the satisfaction of the Engineer.
- Note 2. The coarse aggregate shall be wet to the satisfaction of the Engineer."

Revise the first and second sentences of the second paragraph of subparagraph (a) of Article 542.04 of the Standard Specifications to read:

"The unstable and unsuitable material shall be removed to a depth determined by the Engineer and for a width of one diameter (or equivalent diameter) of the pipe on each side of the pipe culvert, and replaced with aggregate. Rock shall be removed to an elevation 300 mm (1 ft) lower than the bottom of the pipe or to a depth equal to 40 mm/m (1/2 in./ft) of ultimate fill height over the top of the pipe culvert, whichever is the greater depth, and for a width as specified in (b) below, and replaced with aggregate."

Revise the second paragraph of subparagraph (c) of Article 542.04 of the Standard Specifications to read:

"Well compacted aggregate, at least 100 mm (4 in.) in depth below the pipe culvert, shall be placed the entire width of the trench and for the length of the pipe culvert, except well compacted impervious material shall be used for the outer 1 m (3 ft) at each end of the pipe. When the trench has been widened by the removal and replacement of unstable or unsuitable material, the foundation material shall be placed for a width not less than the above specified widths on each side of the pipe. The aggregate and impervious material shall be approved by the Engineer and shall be compacted to the Engineer's satisfaction by mechanical means."

Revise subparagraph (e) of Article 542.04 of the Standard Specifications to read:

"(e) Backfilling. As soon as the condition of the pipe culvert will permit, the entire width of the trench shall be backfilled with aggregate to a height of at least the elevation of the center of the pipe. The aggregate shall be placed longitudinally along the pipe culvert, except at the outer 1 m (3 ft) at each end of the culvert which shall be backfilled with impervious material. The elevation of the backfill material on each side of the pipe shall be the same. The space under the pipe shall be completely filled. The aggregate

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

and impervious material shall be placed in 200 mm (8 in.) layers, loose measurement. When using PVC, PE, or corrugated metal pipe, the aggregate shall be continued to a height of at least 300 mm (1 ft) above the top of the pipe and compacted to a minimum of 85 percent of standard lab density by mechanical means. When reinforced concrete pipes are used and the trench is within 600 mm (2 ft) of the pavement structure, the backfill shall be compacted to a minimum of 85 percent of standard lab density by mechanical means.

When using PVC, PE, or corrugated metal pipe a minimum of 300 mm (1 ft) of cover from the top of the pipe to the top of the subgrade will be required.

The installed pipe and its embedment shall not be disturbed when using movable trench boxes and shields, sheet pile, or other trench protection.

The remainder of the trench shall be backfilled with select material, from excavation or borrow, free from large or frozen lumps, clods or rock, meeting the approval of the Engineer. The material shall be placed in layers not exceeding 200 mm (8 in.) in depth, loose measurement and compacted to 95 percent of the standard laboratory density. Compaction shall be obtained by use of mechanical tampers or with approved vibratory compactors. Before compacting, each layer shall be wetted or dried to bring the moisture content within the limits of 80 to 110 percent of optimum moisture content determined according to AASHTO T 99 (Method C). All backfill material shall be deposited in the trench or excavation in such a manner as not to damage the culvert. The filling of the trench shall be carried on simultaneously on both sides of the pipe. The Contractor may, at his/her expense, backfill the entire trench with aggregate in lieu of select material. The aggregate shall be compacted to the satisfaction of the Engineer by mechanical means.

The backfill material for all trenches and excavations made in the subgrade of the proposed improvement, and for all trenches outside of the subgrade where the inner edge of the trench is within 600 mm (2 ft) of the edge of the proposed pavement, curb, gutter, curb and gutter, stabilized shoulder, or sidewalk shall be according to Section 208. The trench backfill material shall be compacted to a minimum of 85 percent of standard lab density by mechanical means.

The Contractor may, at his/her expense, backfill the entire trench with controlled low strength material meeting the approval of the Engineer.

When the trench has been widened for the removal and replacement of unstable or unsuitable material, the backfilling with aggregate and impervious material, will be required for a width of at least the specified widths on each side of the pipe. The remaining width of each layer may be backfilled with select material. Each 200 mm (8 in.) layer for the entire trench width shall be completed before beginning the placement of the next layer."

Revise subparagraph (b) of Article 542.05 of the Standard Specifications to read:

"(b) Embankment. Embankment extending to an elevation of 300 mm (1 ft) over the top of the pipe shall be constructed according to Article 542.04(f), except the material up to the elevation of the center of the pipe and extending to a width of at least 450 mm (18 in.) on each side of the pipe, exclusive of the outer 1 m (3 ft) at each end of the pipe, shall consist of aggregate. At the outer 1 m (3 ft) at each end of the culvert, impervious material shall be used."

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

Add the following paragraph after the first paragraph of Article 542.10 of the Standard Specifications:

"Trench backfill will be measured for payment according to Article 208.03."

Add the following paragraph after the third paragraph of Article 542.11 of the Standard Specifications:

"Trench backfill will be paid for according to Article 208.04."

Add the following to of Article 550.02 of the Standard Specifications:

- - Note 2. The fine aggregate shall be moist to the satisfaction of the Engineer.
 - Note 3. The coarse aggregate shall be wet to the satisfaction of the Engineer."

Revise the first two sentences of the third paragraph of Article 550.04 of the Standard Specifications to read:

"Well compacted, aggregate bedding material at least 100 mm (4 in.) in depth below the pipe, shall be placed for the entire width of the trench and length of the pipe. The aggregate shall be compacted to the satisfaction of the Engineer by mechanical means."

Revise Article 550.07 of the Standard Specifications to read:

"550.07 Backfilling. As soon as the condition of the pipe will permit, the entire width of the trench shall be backfilled with aggregate to a height of at least the elevation of the center of the pipe. The aggregate shall be placed longitudinally along the pipe. The elevation of the backfill material on each side of the pipe shall be the same. The space under the pipe shall be completely filled. The aggregate backfill material shall be placed in 200 mm (8 in.) layers, loose measurement and compacted to the satisfaction of the Engineer by mechanical means. When using PVC pipe, the aggregate shall be continued to a height of at least 300 mm (12 in.) above the top of the pipe.

The installed pipe and its embedment shall not be disturbed when using movable trench boxes and shields, sheet pile, or other trench protection.

The remainder of the trench and excavation shall be backfilled to the natural line or finished surface as rapidly as the condition of the sewer will permit. The backfill material shall consist of suitable excavated material from the trench or of trench backfill as herein specified. All backfill material shall be deposited in the trench or excavation in such a manner as not to damage the sewer and shall be compacted to the satisfaction of the Engineer by mechanical means. The filling of the trench shall be carried on simultaneously on both sides of the pipe.

The backfill material for trenches and excavation made in the subgrade of the proposed improvement, and for all trenches outside of the subgrade where the inner edge of the trench is

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

within 600 mm (2 ft) of the edge of the proposed pavement, curb, gutter, curb and gutter, stabilized shoulder or sidewalk shall be according to Section 208. The backfill material shall be compacted to 85 percent of standard lab density by mechanical means.

All backfill material up to a height of 300 mm (1 ft) above the pipe shall be deposited in uniform layers not exceeding 200 mm (8 in.) thick, loose measurement. The material in each layer shall be compacted to the satisfaction of the Engineer by mechanical means. The backfilling above this height shall be done according to Method 1, 2 or 3 as described below, with the following exceptions.

When trench backfill or excavated material meeting the requirements of Section 208 is required above the first 300 mm (1 ft) of the pipe, the layers shall not exceed 200 mm (8 in.). Gradations CA6 or CA10 shall not be used with Method 2 or Method 3.

Method 1. The material shall be deposited in uniform layers not exceeding 300 mm (1 ft) thick, loose measurement, and each layer shall be compacted to the satisfaction of the Engineer by mechanical means.

Method 2. The material shall be deposited in uniform layers not exceeding 300 mm (1 ft) thick, loose measurement, and each layer shall be either inundated or deposited in water.

Method 3. The trench shall be backfilled with loose material, and settlement secured by introducing water through holes jetted into the backfill to a point approximately 600 mm (2 ft) above the top of the pipe. The holes shall be spaced as directed by the Engineer but shall be no farther than 2 m (6 ft) apart.

The water shall be injected at a pressure just sufficient to sink the holes at a moderate rate of speed. The pressure shall be such that the water will not cut cavities in the backfill material nor overflow the surface. If water does overflow the surface, it shall be drained into the jetted holes by means of shallow trenches.

Water shall be injected as long as it will be absorbed by the backfill material and until samples taken from test holes in the trench show a satisfactory moisture content. The Contractor shall bore the test holes not more than 15 m (50 ft) apart and at such other locations in the trench designated by the Engineer. As soon as the watersoaking has been completed, all holes shall be filled with soil and compacted by ramming with a tool approved by the Engineer.

Backfill material which has been watersoaked shall be allowed to settle and dry for at least 10 days before any surface course or pavement is constructed on it. The length of time may be altered, if deemed desirable, by the Engineer. Where the inner edge of the trench is within 600 mm (2 ft) of the edge of the proposed pavement, curb, gutter, curb and gutter, stabilized shoulder or sidewalk, the provisions of this paragraph shall also apply.

At the end of the settling and drying period, the crusted top of the backfill material shall be scarified and, if necessary, sufficient backfill material added, as specified in Method 1, to complete the backfilling operations.

The method used for backfilling and compacting the backfill material shall be the choice of the Contractor. If the method used does not produce results satisfactory to the Engineer, the Contractor will be required to alter or change the method being used so the resultant backfill will be satisfactory to the Engineer. Should the Contractor be required to alter or change the method being used, no additional compensation will be allowed for altering or changing the method.

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

The Contractor may, at his/her expense, backfill the entire trench with controlled low strength material meeting the approval of the Engineer.

When sheeting and bracing have been used, sufficient bracing shall be left across the trench as the backfilling progresses to hold the sides firmly in place without caving or settlement. This bracing shall be removed as soon as practicable. Any depressions which may develop within the area involved in the construction operation due to settlement of the backfilling material shall be filled in a manner approved by the Engineer.

When the Contractor constructs the trench with sloped or benched sides according to Article 550.04, backfilling for the full width of the excavation shall be as specified, except no additional compensation will be allowed for trench backfill material required outside the vertical limits of the specified trench width.

Whenever excavation is made for installing sewer pipe across earth shoulders or private property, the topsoil disturbed by excavation operations shall be replaced as nearly as possible in its original position, and the whole area involved in the construction operations shall be left in a neat and presentable condition.

When using any PVC pipe, the pipe shall be backfilled with aggregate to 300 mm (1 ft) over the top of the pipe and compacted to a minimum of 85 percent of standard lab density by mechanical means.

When reinforced concrete pipes are used and the trench is within 600 mm (2 ft) of the pavement structure, the backfill shall be compacted to a minimum of 85 percent of standard lab density by mechanical means.

Deflection Testing for Storm Sewers. All PVC storm sewers will be tested for deflection not less than 30 days after the pipe is installed and the backfill compacted.

For PVC storm sewers with diameters 600 mm (24 in.) or smaller, a mandrel drag shall be used for deflection testing. For PVC storm sewers with diameters over 600 mm (24 in.), deflection measurements other than by a mandrel drag shall be used.

Where the mandrel is used, the mandrel shall be furnished by the Contractor and pulled by hand through the pipeline with a suitable rope or cable connected to each end. Winching or other means of forcing the deflection gauge through the pipeline will not be allowed.

The mandrel shall be of a shape similar to that of a true circle enabling the gauge to pass through a satisfactory pipeline with little or no resistance. The mandrel shall be of a design to prevent it from tipping from side to side and to prevent debris build-up from occurring between the channels of the adjacent fins or legs during operation. Each end of the core of the mandrel shall have fasteners to which the pulling cables can be attached. The mandrel shall have 9, various sized fins or legs of appropriate dimension for various diameter pipes. Each fin or leg shall have a permanent marking that states its designated pipe size and percent of deflection allowable.

The outside diameter of the mandrel shall be 95 percent of the base inside diameter, where the base inside diameter is:

For all PVC pipe (as defined using ASTM D 3034 methodology):

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

If the pipe is found to have a deflection greater than specified, that pipe section shall be removed, replaced, and retested."

Revise subparagraph (c) of Article 1003.04 of the Standard Specifications to read:

"(c) Gradation. The fine aggregate gradation shall be as follows:

Note 1: For FA 1, FA 2, and FA 20 the percent passing the 75 μ m (No. 200) sieve shall be 2 \pm 2."

Revise the title of Article 1004.06 of the Standard Specifications to read:

"Coarse Aggregate for Blotter, Embankment, Backfill, Trench Backfill, French Drains, and Bedding."

Add the following to the end of subparagraph (c) of Article 1004.06 of the Standard Specifications:

80051

CONCRETE ADMIXTURES (BDE)

Effective: January 1, 2003 Revised: January 1, 2004

Revise Article 1020.05(b) of the Standard Specifications to read:

"(b) Admixtures. Except as specified, the use of admixtures to increase the workability or to accelerate the hardening of the concrete will be permitted only when approved in writing by the Engineer. The Department will maintain an Approved List of Concrete Admixtures. When the Department permits the use of a calcium chloride accelerator, it shall be according to Article 442.02, Note 5.

When the atmosphere or concrete temperature is 18 °C (65 °F) or higher, a retarding admixture meeting the requirements of Article 1021.03 shall be used in the Class BD Concrete and portland cement concrete bridge deck overlays. The amount of retarding admixture to be used will be determined by the Engineer. The proportions of the ingredients of the concrete shall be the same as without the retarding admixture except that the amount of mixing water shall be reduced, as may be necessary, in order to maintain the consistency of the concrete as required. In addition, a high range water-reducing admixture shall be used in Class BD Concrete. The amount of high range

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

water-reducing admixture will be determined by the Engineer. At the option of the Contractor, a water-reducing admixture may be used. Type I cement shall be used.

For Class PC and PS Concrete, a retarding admixture may be added to the concrete mixture when the concrete temperature is 18 °C (65 °F) or higher. The Engineer may order or permit the use of a retarding or water-reducing admixture whenever the Engineer considers it appropriate.

At the Contractor's option, admixtures in addition to an air-entraining admixture may be used for Class PP-1 concrete. The accelerator shall be the non-chloride type. If a water-reducing or retarding admixture is used, the cement factor may be reduced a maximum 18 kg/cu m (0.30 hundredweight/cu yd). If a high range water-reducing admixture is used, the cement factor may be reduced a maximum 36 kg/cu m (0.60 hundredweight/cu yd). Cement factor reductions shall not be cumulative when using multiple admixtures. An accelerator shall always be added prior to a high range water-reducing admixture, if both are used.

If Class C fly ash or ground granulated blast-furnace slag is used in Class PP-1 concrete, a water-reducing or high range water-reducing admixture shall be used. However, the cement factor shall not be reduced if a water-reducing, retarding, or high range water-reducing admixture is used. In addition, an accelerator shall not be used.

For Class PP-2 or PP-3 concrete, a non-chloride accelerator followed by a high range water-reducing admixture shall be used, in addition to the air-entraining admixture. For Class PP-3 concrete, the non-chloride accelerator shall be calcium nitrite.

For Class PP-2 or PP-3 concrete, the Contractor has the option to use a water-reducing admixture. A retarding admixture shall not be used unless approved by the Engineer. A water-reducing, retarding, or high range water-reducing admixture shall not be used to reduce the cement factor.

When the air temperature is less than 13 °C (55 °F) for Class PP-1 or PP-2 concrete, the non-chloride accelerator shall be calcium nitrite.

For Class PP-4 concrete, a high range water-reducing admixture shall be used in addition to the air-entraining admixture. The Contractor has the option to use a water-reducing admixture. An accelerator shall not be used. For stationary or truck mixed concrete, a retarding admixture shall be used to allow for haul time. The Contractor has the option to use a mobile portland cement concrete plant according to Article 1103.04, but a retarding admixture shall not be used unless approved by the Engineer. A water-reducing, retarding, or high range water-reducing admixture shall not be used to reduce the cement factor.

If the Department specifies a calcium chloride accelerator for Class PP-1 concrete, the maximum chloride dosage shall be 1.0 L (1.0 quart) of solution per 45 kg (100 lb) of cement. The dosage may be increased to a maximum 2.0 L (2.0 quarts) per 45 kg (100 lb) of cement if approved by the Engineer. If the Department specifies a calcium chloride accelerator for Class PP-2 concrete, the maximum chloride dosage shall be 1.3 L (1.3 quarts) of solution per 45 kg (100 lb) of cement. The dosage may be increased to a maximum 2.6 L (2.6 quarts) per 45 kg (100 lb) of cement if approved by the Engineer.

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

For Class PV, MS, SI, RR, SC and SH concrete, at the option of the Contractor, or when specified by the Engineer, a water-reducing admixture or a retarding admixture may be used. The amount of water-reducing admixture or retarding admixture permitted will be determined by the Engineer. The air-entraining admixture and other admixtures shall be added to the concrete separately, and shall be permitted to intermingle only after they have separately entered the concrete batch. The sequence, method and equipment for adding the admixtures shall be approved by the Engineer. The water-reducing admixture shall not delay the initial set of the concrete by more than one hour. Type I cement shall be used.

When a water-reducing admixture is added, a cement factor reduction of up to 18 kg/cu m (0.30 hundredweight/cu yd), from the concrete designed for a specific slump without the admixture, will be permitted for Class PV, MS, SI, RR, SC and SH concrete. When an approved high range water-reducing admixture is used, a cement factor reduction of up to 36 kg/cu m (0.60 hundredweight/cu yd), from a specific water cement/ratio without the admixture, will be permitted based on a 14 percent minimum water reduction. This is applicable to Class PV, MS, SI, RR, SC and SH concrete. A cement factor below 320 kg/cu m (5.35 hundredweight/cu yd) will not be permitted for Class PV, MS, SI, RR, SC and SH concrete. A cement factor reduction will not be allowed for concrete placed underwater. Cement factor reductions shall not be cumulative when using multiple admixtures.

For use of admixtures to control concrete temperature, refer to Articles 1020.14(a) and 1020.14(b).

The maximum slumps given in Table 1 may be increased to 175 mm (7 in.) when a high range water-reducing admixture is used for all classes of concrete except Class PV and PP."

Revise Section 1021 of the Standard Specifications to read:

SECTION 1021 – CONCRETE ADMIXTURES

1021.01 **General.** Admixtures shall be furnished in liquid form ready for use. The admixtures may be delivered in the manufacturer's original containers, bulk tank trucks or such containers or tanks as are acceptable to the Engineer. Delivery shall be accompanied by a ticket which clearly identifies the manufacturer and trade name of the material. In all cases, containers shall be readily identifiable to the satisfaction of the Engineer as to manufacturer and trade name of the material they contain.

Prior to inclusion of a product on the Department's Approved List of Concrete Admixtures, the manufacturer shall submit a report prepared by an independent laboratory accredited by the AASHTO Accreditation Program. The report shall show the results of physical tests conducted no more than five years prior to the time of submittal, according to applicable specifications.

Tests shall be conducted using materials and methods specified on a "test" concrete and a "reference" concrete, together with a certification that no changes have been made in the formulation of the material since the performance of the tests. The report shall also include water contents and results of set time tests according to AASHTO T 197 that were conducted on both a test and reference concrete, using cement from the source that is used as a standard by the Bureau of Materials and Physical Research. The cement content for all required tests shall either be according to applicable specifications or 335 kg/cu m (5.65 cwt/cu yd). Compressive strength test results for six months and one year will not be required.

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

Prior to the approval of an admixture, the Engineer may conduct all or part of the applicable tests on a sample that is representative of the material to be furnished. The test and reference concrete mixtures tested by the Engineer will contain a cement content of 335 kg/cu m (5.65 cwt/cu yd).

The manufacturer shall submit certification, both initially and annually thereafter, giving the following information according to ASTM C 494; the average and manufacturing range of specific gravity, the average and manufacturing range of solids in the solution, and the average and manufacturing range of pH. The initial and annual certifications shall further state that all admixtures, except chloride-based accelerators, shall contain no more than 0.3 percent chloride by mass. The initial submittal shall also include an infrared spectrophotometer trace no more than five years old.

Annual re-submittals will be required and shall include certification that no changes have been made in the formulation since it was initially approved. The certification shall state that the admixture is the same as previously approved, and the Engineer may conduct such tests as deemed desirable to check the properties of the material before re-approval is granted.

When test results are more than seven years old, the manufacturer shall re-submit the infrared spectrophotometer trace and the report prepared by an independent laboratory that is accredited by AASHTO Accreditation Program.

1021.02 Air-Entraining Admixtures. Air-entraining admixtures shall conform to the requirements of AASHTO M 154.

If the manufacturer certifies that the air-entraining admixture is an aqueous solution of Vinsol resin that has been neutralized with sodium hydroxide (caustic soda), testing for compliance with the requirements may be waived by the Engineer. In the certification, the manufacturer shall show complete information with respect to the formulation of the solution, including the number of parts of Vinsol resin to each part of sodium hydroxide. Before the approval of its use is granted, the Engineer will test the solution for its air-entraining quality in comparison with a solution prepared and kept for that purpose.

1021.03 Retarding and Water-Reducing Admixtures. The admixture shall comply with the following requirements:

- (a) The retarding admixture shall comply with the requirements of AASHTO M 194, Type B (retarding) or Type D (water-reducing and retarding).
- (b) The water-reducing admixture shall comply with the requirements of AASHTO M 194, Type A.
- (c) The high range water-reducing admixture shall comply with the requirements of AASHTO M 194, Type F (high range water-reducing) or Type G (high range water-reducing and retarding).

When a Type F or Type G high range water-reducing admixture is used, water-cement ratios shall be a minimum of 0.32.

Type F or Type G admixtures may be used, subject to the following restrictions:

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

For Class MS, SI, RR, SC and SH concrete, the water-cement ratio shall be a maximum of 0.44.

The Type F or Type G admixture shall be added at the jobsite unless otherwise directed by the Engineer. The initial slump shall be a minimum of 40 mm (1 1/2 in.) prior to addition of the Type F or Type G admixture, except as approved by the Engineer.

When a Type F or Type G admixture is used, retempering with water or with a Type G admixture will not be allowed. An additional dosage of a Type F admixture, not to exceed 40 percent of the original dosage, may be used to retemper concrete once, provided set time is not unduly affected. A second retempering with a Type F admixture may be used for all classes of concrete except Class PP and SC, provided that the dosage does not exceed the dosage used for the first retempering, and provided that the set time is not unduly affected. No further retempering will be allowed.

Air tests shall be performed after the addition of the Type F or Type G admixture.

1021.04 Set Accelerating Admixtures. The admixture shall comply with the requirements of AASHTO M 194, Type C (accelerating) or Type E (water reducing and accelerating)"

80094

CONTROLLED AGGREGATE MIXING SYSTEM (BDE)

Effective: November 1, 2002

Revise the fourth sentence of the first paragraph of Article 311.05(b) of the Standard Specifications to read:

"The water and granular material shall be mixed through a controlled aggregate mixing system. The system shall consist of a mechanical mixing device and aggregate and water measuring devices, meeting the approval of the Engineer."

Revise the third and fourth sentences of the fourth paragraph of Article 351.05(b) of the Standard Specifications to read:

"The water and aggregate shall be mixed through a controlled aggregate mixing system. The system shall consist of a mechanical mixing device and aggregate and water measuring devices, meeting the approval of the Engineer."

Delete the third sentence of the first paragraph of Article 351.05(c) of the Standard Specifications.

Revise the second and third sentences of the first paragraph of Article 481.04(a) of the Standard Specifications to read:

"The water and aggregate shall be mixed through a controlled aggregate mixing system. The system shall consist of a mechanical mixing device and aggregate and water measuring devices, meeting the approval of the Engineer."

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

CURB RAMPS FOR SIDEWALK (BDE)

Effective: January 1, 2004

<u>Description</u>. This work shall consist of constructing sidewalk curb ramps with detectable warnings in compliance with the Americans with Disabilities Act, Accessibility Guidelines (ADAAG). Work shall be according to Section 424 of the Standard Specifications except as modified herein.

The detectable warnings shall consist of an area of truncated domes that provide both visual and tactile cues to pedestrians who are about to enter into traffic. The warning area shall begin 150 mm (6 in.) from the back of the curb and continue 600 mm (2 ft) in the direction of pedestrian travel for the entire width of the walking surface.

The detectable warnings shall also present a contrast in color from the adjacent sidewalk. This shall be accomplished by constructing the warning area, plus the 150 mm (6 in.) area between the warning area and the back of curb, out of concrete that is integrally colored red. However if the sidewalk is brick or of some dark color, the contrast requirement shall be achieved with normal (grey), Class SI concrete.

<u>Materials</u>. Materials for the detectable warning area of the curb ramps shall meet the following requirements.

a) Integrally Colored Concrete. Integrally colored concrete shall be according to Section 1020 of the Standard Specification for Class SI concrete except as follows.

Article 1020.04	The allowable water/cement ratio range shall be 0.40 minimum to 0.44 maximum.	
Article 1020.04	The allowable slump range shall be 75 mm (3 in.) minimum to 125 mm (5 in.) maximum.	
Article 1020.04	The allowable coarse aggregate gradations shall be CA 11, CA 13, CA 14, and CA 16.	
Article 1020.05(b)	A calcium chloride accelerating admixture shall not be used.	
Article 1020.05(b)	The cement factor shall not be reduced if a water-reducing or high range water-reducing admixture is used.	
Article 1020.05(c)	Fly ash shall not be used.	
Article 1020.05(k)	Ground granulated blast-furnace slag shall not be used.	
Article 1020.11	Pigment for integrally colored concrete shall be added to the concrete and mixed per the Manufacturer's recommendation.	
Article 1020.13	The curing method shall be Type I membrane curing.	
Article 1020.13.	The protection method shall be according to Article 1020.13(e)(1)	

and the protection period shall be 96 hours. No material, including

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

the insulating material, shall be placed in direct contact with the concrete surface.

(b) Pigment for Integrally Colored Concrete. The pigment shall meet the requirements of ASTM C 979, match color number 30166 of Federal Standard 595, and be on the Department's Approved List of Pigments for Integrally Colored Concrete.

(c) Release Agent for Concrete Stamping Tools. The release agent shall be according to the stamping tool manufacturer's recommendations and the following: it shall be a clear liquid that will evaporate, it shall not harm the concrete, and it shall allow the application of Type I membrane curing.

<u>Equipment</u>. Equipment for the detectable warning area of the curb ramps shall meet the following requirements.

- (a) Concrete Stamps. Sufficient numbers and sizes of stamps shall be furnished to cover the various widths of the curb ramps. The stamps shall have an air opening at the top of each truncated dome recess; and shall be rigid enough to evenly distribute the force exerted during tamping.
- (b) Tamper. The tamper shall be according to the concrete stamp manufacturer's recommendations.

CONSTRUCTION REQUIREMENTS

<u>Stamping</u>. The concrete shall be placed and finished according to Article 424.06 except the area to be stamped shall not be brushed. When the bleed water has been absorbed, stamping shall begin. The entire width of the curb ramp shall be stamped at the same time. A single stamp or a combination of stamps may be used.

Prior to placing the stamp on the concrete, the stamp shall be coated with the release agent. When recommended by the manufacturer, the release agent shall also be applied to the concrete surface. Once the stamp has been placed on the ramp, it shall remain down until the stamping is complete.

The entire area of the stamp shall be tamped with a short, slow, repetitive action such that the concrete is caused to move up and into the dome recesses of the stamp. Tamping shall continue until mortar has come through the air openings in the stamp. Stepping or walking on the stamp will not be allowed. The base elevation of the domes shall be even with the adjacent sidewalk surface; the stamp shall not be forced down into the concrete.

When stamping is complete, the stamp shall be removed and the concrete cured.

Upon completion of curing, or after cold weather protection if required, the protruding mortar tip on the top of each dome shall be removed and the dome rubbed or ground smooth.

80113

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

CURING AND PROTECTION OF CONCRETE CONSTRUCTION (BDE)

Effective: January 1, 2004

Revise the second and third sentences of the eleventh paragraph of Article 503.06 of the Standard Specifications to read:

"Forms on substructure units shall remain in place at least 24 hours. The method of form removal shall not result in damage to the concrete."

Delete the twentieth paragraph of Article 503.22 of the Standard Specifications.

Revise the "Unit Price Adjustments" table of Article 503.22 of the Standard Specifications to read:

"UNIT PRICE ADJUSTMENTS			
Type of Construction	Percent Adjustment in Unit Price		
For concrete in substructures, culverts (having a waterway opening of more than 1 sq m (10 sq ft)), pump houses, and retaining walls (except concrete pilings, footings and foundation seals): When protected by: Protection Method II	115%		
Protection Method I	110%		
For concrete in superstructures: When protected by: Protection Method II Protection Method I	123% 115%		
For concrete in footings: When protected by: Protection Method I, II or III	107%		
For concrete in slope walls: When protected by: Protection Method I	107%"		

Delete the fourth paragraph of Article 504.05(a) of the Standard Specifications.

Revise the second and third sentences of the fifth paragraph of Article 504.05(a) of the Standard Specifications to read:

"All test specimens shall be cured with the units according to Article 1020.13."

Revise the first paragraph of Article 504.06(c)(6) of the Standard Specifications to read:

"Curing and Low Air Temperature Protection. The curing and protection for precast, prestressed concrete members shall be according to Article 1020.13 and this Article."

Revise the first sentence of the second paragraph of Article 504.06(c)(6) of the Standard Specifications to read:

"For curing, air vents shall be in place, and shall be so arranged that no water can enter the void tubes during the curing of the members."

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

Revise the first sentence of the third paragraph of Article 504.06(c)(6) of the Standard Specifications to read:

"As soon as each member is finished, the concrete shall be covered with curing material according to Article 1020.13."

Revise the eighth paragraph of Article 504.06(c)(6) of the Standard Specifications to read:

"The prestressing force shall not be transferred to any member before the concrete has attained the compressive strength of 28,000 kPa (4000 psi) or other higher compressive release strength specified on the plans, as determined from tests of 150 mm (6 in.) by 300 mm (12 in.) cylinders cured with the member according to Article 1020.13. Members shall not be shipped until 28-day strengths have been attained and members have a yard age of at least 4 days."

Delete the third paragraph of Article 512.03(a) of the Standard Specifications.

Delete the last sentence of the second paragraph of Article 512.04(d) of the Standard Specifications.

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

Revise the "Index Table of Curing and Protection of Concrete Construction" table of Article 1020.13 of the Standard Specifications to read:

"INDEX TABLE OF CURING AND PROTECTION OF CONCRETE CONSTRUCTION					
TYPE OF CONSTRUCTION	CURING METHODS	CURING PERIOD DAYS	LOW AIR TEMPERATURE PROTECTION METHODS		
Cast-in-Place Concrete: 11/					
Pavement Shoulder	1020.13(a)(1)(2)(3)(4)(5) ^{3/5/}	3	1020.13(c)		
Base Course	1020.13(a)(1)(2)(3)(4)(3)	3	1020.13(0)		
Base Course Widening	1020.13(a)(1)(2)(3)(4)(5) ^{1/2/}	3	1020.13(c)		
Driveway Median Curb Gutter Curb and Gutter Sidewalk Slope Wall	1020.13(a)(1)(2)(3)(4)(5) ^{4/5/}	3	1020.13(c) ^{16/}		
Paved Ditch Catch Basin Manhole Inlet Valve Vault	1020.13(a)(1)(2)(3)(4)(5) ^{4/}	3	1020.13(c)		
Pavement Patching	1020.13(a)(1)(2)(3)(4)(5) ^{2/}	3 ^{12/}	1020.13(c)		
Pavement Replacement	1020.13(a)(1)(2)(3)(4)(5) ^{1/2/}	3	442.06(h) and 1020.13(c)		
Railroad Crossing	1020.13(a)(3)(5)	1	1020.13(c)		
Piles	1020.13(a)(3)(5)	7	1020.13(e)(1)(2)(3)		
Footings Foundation Seals	1020.13(a)(1)(2)(3)(4)(5) ^{4/6/}	7	1020.13(e)(1)(2)(3)		
Substructure	1020.13(a)(1)(2)(3)(4)(5) ^{1/7/}	7	1020.13(e)(1)(2)(3)		
Superstructure (except deck)	1020.13(a)(1)(2)(3)(5) ^{8/}	7	1020.13(e)(1)(2)		
Deck	1020.13(a)(5)	7	1020.13(e)(1)(2) ^{17/}		
Retaining Walls	1020.13(a)(1)(2)(3)(4)(5) ^{1/7/}	7	1020.13(e)(1)(2)		
Pump Houses	1020.13(a)(1)(2)(3)(4)(5) ^{1/}	7	1020.13(e)(1)(2)		
Culverts	1020.13(a)(1)(2)(3)(4)(5) ^{4/6/}	7	1020.13(e)(1)(2) ^{18/}		
Other Incidental Concrete Precast Concrete: 11/	1020.13(a)(1)(2)(3)(5)	3	1020.13(c)		
Bridge Beams Piles					
Bridge Slabs Nelson Type Structural Member	1020.13(a)(3)(5) 9/10/	•	504.06(c)(6), 1020.13(e)(2) ^{19/}		
All Other Precast Items	1020.13(a)(3)(4)(5) ^{2/9/10/}	As required. 14/	504.06(c)(6), 1020.13(e)(2) ^{19/}		
Precast, Prestressed Concrete: 11/					
All Items	1020.13(a)(3)(5) ^{9/10/}	Until strand tensioning is released. ^{15/}	d504.06(c)(6), 1020.13(e)(2) ^{19/}		

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

Notes-General:

1/ Type I, membrane curing only

- 2/ Type II, membrane curing only
- 3/ Type III, membrane curing only
- 4/ Type I, II and III membrane curing
- 5/ Membrane curing will not be permitted between November 1 and April 15.
- 6/ The use of water to inundate footings, foundation seals or the bottom slab of culverts is permissible when approved by the Engineer, provided the water temperature can be maintained at 7 °C (45 °F) or higher.
- 7/ Asphalt Emulsion for Waterproofing may be used in lieu of other curing methods when specified and permitted according to Article 503.18.
- 8/ On non-traffic surfaces which receive protective coat according to Article 503.19, a linseed oil emulsion curing compound may be used as a substitute for protective coat and other curing methods. The linseed emulsion curing compound will be permitted between April 16 and October 31 of the same year, provided it is applied with a mechanical sprayer according to Article 1101.09 (b), and meets the material requirements of Article 1022.07.
- 9/ Steam curing (heat and moisture) is acceptable and shall be accomplished by the method specified in Article 504.06(c)(6).
- 10/ A moist room according to AASHTO M 201 is acceptable for curing.
- 11/ If curing is required and interrupted because of form removal for cast-in-place concrete items, precast concrete products, or precast prestressed concrete products, the curing shall be resumed within two hours from the start of the form removal.
- 12/ Curing maintained only until opening strength is attained, with a maximum curing period of three days.
- 13/ The curing period shall end when the concrete has attained the mix design strength. The producer has the option to discontinue curing when the concrete has attained 80 percent of the mix design strength or after seven days. All strength test specimens shall remain with the units and shall be subjected to the same curing method and environmental condition as the units, until the time of testing.
- 14/ The producer shall determine the curing period or may elect to not cure the product. All strength test specimens shall remain with the units and shall be subjected to the same curing method and environmental condition as the units, until the time of testing.
- 15/ The producer has the option to continue curing after strand release.
- 16/ When structural steel or structural concrete is in place above slope wall, Article 1020.13(c) shall not apply. The protection method shall be according to Article 1020.13(e)(1).
- 17/ When Article 1020.13(e)(2) is used to protect the deck, the housing may enclose only the bottom and sides. The top surface shall be protected according to Article 1020.13(e)(1).
- 18/ For culverts having a waterway opening of 1 sq m (10 sq ft) or less, the culverts may be protected according to Article 1020.13(e)(3).
- 19/ The seven day protection period in the first paragraph of Article 1020.13(e)(2) shall not apply. The protection period shall end when curing is finished. For the third paragraph of Article 1020.13(e)(2), the decrease in temperature shall be according to Article 504.06(c)(6)."

Add the following to Article 1020.13(a) of the Standard Specifications:

"(5) Wetted Cotton Mat Method. After the surface of concrete has been textured or finished, it shall be covered immediately with dry cotton mats. The cotton mats shall be placed in a manner which will not mar the concrete surface. A texture resulting from the cotton mat material is acceptable. The cotton mats shall then be wetted

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

immediately and thoroughly soaked with a gentle spray of water. For bridge decks, a foot bridge shall be used to place and wet the cotton mats.

The cotton mats shall be maintained in a wetted condition until the concrete has hardened sufficiently to place soaker hoses without marring the concrete surface. The soaker hoses shall be placed on top of the cotton mats at a maximum 1.2 m (4 ft) spacing. The cotton mats shall be kept wet with a continuous supply of water for the remainder of the curing period. Other continuous wetting systems may be used if approved by the Engineer.

After placement of the soaker hoses, the cotton mats shall be covered with white polyethylene sheeting or burlap-polyethylene blankets.

For construction items other than bridge decks, soaker hoses or a continuous wetting system will not be required if the alternative method keeps the cotton mats wet. Periodic wetting of the cotton mats is acceptable.

For areas inaccessible to the cotton mats on bridge decks, curing shall be according to Article 1020.13(a)(3)."

Revise the first paragraph of Article 1020.13(c) of the Standard Specifications to read:

"Protection of Portland Cement Concrete, Other Than Structures, From Low Air Temperatures. When the official National Weather Service forecast for the construction area predicts a low of 0 °C (32 °F), or lower, or if the actual temperature drops to 0 °C (32 °F), or lower, concrete less than 72 hours old shall be provided at least the following protection:"

Delete Article 1020.13(d) and Articles 1020.13(d)(1),(2),(3),(4) of the Standard Specifications.

Revise the first five paragraphs of Article 1020.13(e) of the Standard Specifications to read:

"Protection of Portland Cement Concrete Structures From Low Air Temperatures. When the official National Weather Service Forecast for the construction area predicts a low below 7 °C (45 °F), or if the actual temperature drops below 7 °C (45 °F), concrete less than 72 hours old shall be provided protection. Concrete shall also be provided protection when placed during the winter period of December 1 through March 15. Concrete shall not be placed until the materials, facilities and equipment for protection are approved by the Engineer.

When directed by the Engineer, the Contractor may be required to place concrete during the winter period. If winter construction is specified, the Contractor shall proceed with the construction, including concrete, excavation, pile driving, steel erection and all appurtenant work required for the complete construction of the item, except at times when weather conditions make such operations impracticable.

Regardless of the precautions taken, the Contractor shall be responsible for protection of the concrete placed and any concrete damaged by cold temperatures shall be removed and replaced by the Contractor at his/her own expense."

Add the following at the end of the third paragraph of Article 1020.13(e)(1) of the Standard Specifications:

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

"The Contractor shall provide means for checking the temperature of the surface of the concrete during the protection period."

Revise the second sentence of the first paragraph of Article 1020.13(e)(2) of the Standard Specifications to read:

"The Contractor shall provide means for checking the temperature of the surface of the concrete or air temperature within the housing during the protection period."

Delete the last sentence of the first paragraph of Article 1020.13(e)(3) of the Standard Specifications.

Add the following Article to Section 1022 of the Standard Specifications:

"1022.06 Cotton Mats. Cotton mats shall consist of a cotton fill material, minimum 400 g/sq m (11.8 oz/sq yd), covered with unsized cloth or burlap, minimum 200 g/sq m (5.9 oz/sq yd), and be tufted or stitched to maintain stability.

Cotton mats shall be in a condition satisfactory to the Engineer. Any tears or holes in the mats shall be repaired.

Add the following Article to Section 1022 of the Standard Specifications:

"1022.07 Linseed Oil Emulsion Curing Compound. Linseed oil emulsion curing compound shall be composed of a blend of boiled linseed oil and high viscosity, heavy bodied linseed oil emulsified in a water solution. The curing compound shall meet the requirements of a Type I, II, or III according to Article 1022.01, except the drying time requirement will be waived. The oil phase shall be 50 ± 4 percent by volume. The oil phase shall consist of 80 percent by mass (weight) boiled linseed oil and 20 percent by mass (weight) Z-8 viscosity linseed oil. The water phase shall be 50 ± 4 percent by volume."

Revise Article 1020.14 of the Standard Specifications to read:

- "1020.14 Temperature Control for Placement. Temperature control for concrete placement shall conform to the following requirements:
 - (a) Temperature Control other than Structures. The temperature of concrete immediately before placing, shall be not less than 10 °C (50 °F) nor more than 32 °C (90 °F). Aggregates and/or water shall be heated or cooled as necessary to produce concrete within these temperature limits.

When the temperature of the plastic concrete reaches 30 °C (85 °F), an approved retarding admixture shall be used or the approved water reducing admixture in use shall have its dosage increased by 50 percent over the dosage recommended on the Department's Approved List of Concrete Admixtures for the temperature experienced. The amount of retarding admixture to be used will be determined by the Engineer. This requirement may be waived by the Engineer when fly ash compensated mixtures are used.

Plastic concrete temperatures up to 35 $^{\circ}$ C (96 $^{\circ}$ F), as placed, may be permitted provided job site conditions permit placement and finishing without excessive use of water on and/or overworking of the surface. The occurrence within 24 hours of unusual surface

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

distress shall be cause to revert to a maximum 32 °C (90 °F) plastic concrete temperature.

Concrete shall not be placed when the air temperature is below 5 °C (40 °F) and falling or below 2 °C (35 °F), without permission of the Engineer. When placing of concrete is authorized during cold weather, the Engineer may require the water and/or the aggregates to be heated to not less than 20 °C (70 °F) nor more than 65 °C (150 °F). The aggregates may be heated by either steam or dry heat prior to being placed in the mixer. The apparatus used shall heat the mass uniformly and shall be so arranged as to preclude the possible occurrence of overheated areas which might damage the materials. No frozen aggregates shall be used in the concrete.

For pavement patching, refer to Article 442.06(e) for additional information on temperature control for placement.

(b) Temperature Control for Structures. The temperature of concrete as placed in the forms shall be not less than 10 °C (50 °F) nor more than 32 °C (90 °F). Aggregates and/or water shall be heated or cooled as necessary to produce concrete within these temperature limits. When insulated forms are used, the temperature of the concrete mixture shall not exceed 25 °C (80 °F). If the Engineer determines that heat of hydration might cause excessive temperatures in the concrete, the concrete shall be placed at a temperature between 10 °C (50 °F) and 15 °C (60 °F), per the Engineer's instructions. When concrete is placed in contact with previously placed concrete, the temperature of the concrete may be increased as required to offset anticipated heat loss.

Concrete shall not be placed when the air temperature is below 7 °C (45 °F) and falling or below 4 °C (40 °F), without permission of the Engineer. When placing of concrete is authorized during cold weather, the Engineer may require the water and/or the aggregates to be heated to not less than 20 °C (70 °F) nor more than 65 °C (150 °F). The aggregates may be heated by either steam or dry heat prior to being placed in the mixer. The apparatus used shall heat the mass uniformly and shall be so arranged as to preclude the possible occurrence of overheated areas which might damage the materials. No frozen aggregates shall be used in the concrete.

When the temperature of the plastic concrete reaches 30 °C (85 °F), an approved retarding admixture shall be used or the approved water reducing admixture in use shall have its dosage increased by 50 percent over the dosage recommended on the Department's Approved List of Concrete Admixtures for the temperature experienced. The amount of retarding admixture to be used will be determined by the Engineer. This requirement may be waived by the Engineer when fly ash compensated mixtures are used.

(c) Temperature. The concrete temperature shall be determined according to ASTM C 1064."

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

DISADVANTAGED BUSINESS ENTERPRISE PARTICIPATION (BDE)

Effective: September 1, 2000 Revised: June 1, 2004

<u>FEDERAL OBLIGATION</u>. The Department of Transportation, as a recipient of federal financial assistance, is required to take all necessary and reasonable steps to ensure nondiscrimination in the award and administration of contracts. Consequently, the federal regulatory provisions of 49 CFR part 26 apply to this contract concerning the utilization of disadvantaged business enterprises. This Special Provision will also be used by the Department to satisfy the requirements of the Business Enterprise for Minorities, Females, and Persons with Disabilities Act, 30 ILCS 575. For the purposes of this Special Provision, a disadvantaged business enterprise (DBE) means a business certified by the Department in accordance with the requirements of 49 CFR part 26 and listed in the DBE Directory or most recent addendum.

<u>CONTRACTOR ASSURANCE</u>. The Contractor makes the following assurance and agrees to include the assurance in each subcontract that the Contractor signs with a subcontractor:

The contractor, subrecipient or subcontractor shall not discriminate on the basis of race, color, national origin, or sex in the performance of this contract. The contractor shall carry out applicable requirements of 49 CFR part 26 in the award and administration of federally-assisted contracts. Failure by the contractor to carry out these requirements is a material breach of this contract, which may result in the termination of this contract or such other remedy as the recipient deems appropriate.

OVERALL GOAL SET FOR THE DEPARTMENT. As a requirement of compliance with 49 CFR part 26, the Department has set an overall goal for DBE participation in its federally assisted contracts. That goal applies to all federal-aid funds the Department will expend in its federally assisted contracts for the subject reporting fiscal year. The Department is required to make a good faith effort to achieve the overall goal. The dollar amount paid to all approved DBE firms performing work called for in this contract is eligible to be credited toward fulfillment of the Department's overall goal.

CONTRACT GOAL TO BE ACHIEVED BY THE CONTRACTOR. This contract includes a specific DBE utilization goal established by the Department. The goal has been included because the Department has determined that the work of this contract has subcontracting opportunities that may be suitable for performance by DBE companies. This determination is based on an assessment of the type of work, the location of the work, and the availability of DBE companies to do a part of the work. The assessment indicates that, in the absence of unlawful discrimination, and in an arena of fair and open competition, DBE companies can be expected to perform 25.00% of the work. This percentage is set as the DBE participation goal for this contract. Consequently, in addition to the other award criteria established for this contract, the Department will award this contract to a bidder who makes a good faith effort to meet this goal of DBE participation in the performance of the work. A bidder makes a good faith effort for award consideration if either of the following is done in accordance with the procedures set forth in this Special Provision:

- (a) The bidder documents that firmly committed DBE participation has been obtained to meet the goal; or
- (b) The bidder documents that a good faith effort has been made to meet the goal, even though the effort did not succeed in obtaining enough DBE participation to meet the goal.

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

<u>DBE LOCATOR REFERENCES</u>. Bidders may consult the DBE Directory as a reference source for DBE companies certified by the Department. In addition, the Department maintains a letting and item specific DBE locator information system whereby DBE companies can register their interest in providing quotes on particular bid items advertised for letting. Information concerning DBE companies willing to quote work for particular contracts may be obtained by contacting the Department's Bureau of Small Business Enterprises at telephone number (217)785-4611, or by visiting the Department's web site at www.dot.state.il.us.

<u>BIDDING PROCEDURES</u>. Compliance with the bidding procedures of this Special Provision is required prior to the award of the contract and the failure of the as-read low bidder to comply will render the bid nonresponsive.

- (a) In order to assure the timely award of the contract, the as-read low bidder must submit a Disadvantaged Business Utilization Plan on Department form SBE 2026 within seven (7) working days after the date of letting. To meet the seven (7) day requirement, the bidder may send the Plan by certified mail or delivery service within the seven (7) working day period. If a question arises concerning the mailing date of a Plan, the mailing date will be established by the U.S. Postal Service postmark on the original certified mail receipt from the U.S. Postal Service or the receipt issued by a delivery service. It is the responsibility of the as-read low bidder to ensure that the postmark or receipt date is affixed within the seven (7) working days if the bidder intends to rely upon mailing or delivery to satisfy the submission day requirement. The Plan is to be submitted to the Department of Transportation, Bureau of Small Business Enterprises, Contract Compliance Section, 2300 South Dirksen Parkway, Room 319, Springfield, Illinois 62764 (Telefax: (217)785-1524). It is the responsibility of the bidder to obtain confirmation of telefax delivery. The Department will not accept a Utilization Plan if it does not meet the seven (7) day submittal requirement, and the bid will be declared nonresponsive. In the event the bid is declared nonresponsive due to a failure to submit a Plan or failure to comply with the bidding procedures set forth herein, the Department may elect to cause the forfeiture of the penal sum of the bidder's proposal guaranty, and may deny authorization to bid the project if re-advertised for bids. The Department reserves the right to invite any other bidder to submit a Utilization Plan at any time for award consideration or to extend the time for award.
- (b) The Utilization Plan shall indicate that the bidder either has obtained sufficient DBE participation commitments to meet the contract goal or has not obtained enough DBE participation commitments in spite of a good faith effort to meet the goal. The Utilization Plan shall further provide the name, telephone number and telefax number of a responsible official of the bidder designated for purposes of notification of plan approval or disapproval under the procedures of this Special Provision.
- (c) The Utilization Plan shall include a DBE Participation Commitment Statement, Department form SBE 2025, for each DBE proposed for the performance of work to achieve the contract goal. The signatures on these forms must be original signatures. All elements of information indicated on the said form shall be provided, including but not limited to the following:
 - (1) The name and address of each DBE to be used;
 - (2) A description, including pay item numbers, of the commercially useful work to be done by each DBE;

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

(3) The price to be paid to each DBE for the identified work specifically stating the quantity, unit price and total subcontract price for the work to be completed by the DBE. If partial pay items are to be performed by the DBE, indicate the portion of each item, a unit price where appropriate and the subcontract price amount:

- (4) A commitment statement signed by the bidder and each DBE evidencing availability and intent to perform commercially useful work on the project; and
- (5) If the bidder is a joint venture comprised of DBE firms and non-DBE firms, the plan must also include a clear identification of the portion of the work to be performed by the DBE partner(s).
- (d) The contract will not be awarded until the Utilization Plan submitted by the bidder is approved. The Utilization Plan will be approved by the Department if the Plan commits sufficient commercially useful DBE work performance to meet the contract goal. The Utilization Plan will not be approved by the Department if the Plan does not commit sufficient DBE performance to meet the contract goal unless the bidder documents that it made a good faith effort to meet the goal. The good faith procedures of Section VIII of this special provision apply. If the Utilization Plan is not approved because it is deficient in a technical matter, unless waived by the Department, the bidder will be notified and will be allowed no less than a five (5) working day period in order to cure the deficiency.

CALCULATING DBE PARTICIPATION. The Utilization Plan values represent work anticipated to be performed and paid for upon satisfactory completion. The Department is only able to count toward the achievement of the overall goal and the contract goal the value of payments made for the work actually performed by DBE companies. In addition, a DBE must perform a commercially useful function on the contract to be counted. A commercially useful function is generally performed when the DBE is responsible for the work and is carrying out its responsibilities by actually performing, managing, and supervising the work involved. The Department and Contractor are governed by the provisions of 49 CFR part 26.55(c) on questions of commercially useful functions as it affects the work. Specific counting guidelines are provided in 49 CFR part 26.55, the provisions of which govern over the summary contained herein.

- (a) DBE as the Contractor: 100% goal credit for that portion of the work performed by the DBE's own forces, including the cost of materials and supplies. Work that a DBE subcontracts to a non-DBE firm does not count toward the DBE goals.
- (b) DBE as a joint venture Contractor: 100% goal credit for that portion of the total dollar value of the contract equal to the distinct, clearly defined portion of the work performed by the DBE's own forces.
- (c) DBE as a subcontractor: 100% goal credit for the work of the subcontract performed by the DBE's own forces, including the cost of materials and supplies, excluding the purchase of materials and supplies or the lease of equipment by the DBE subcontractor from the prime contractor or its affiliates. Work that a DBE subcontractor in turn subcontracts to a non-DBE firm does not count toward the DBE goal.
- (d) DBE as a trucker: 100% goal credit for trucking participation provided the DBE is responsible for the management and supervision of the entire trucking operation for which it is responsible. At least one truck owned, operated, licensed and insured by the DBE must be used on the contact. Credit will be given for the full value of all such DBE trucks operated using DBE employed drivers. Goal credit will be limited to the value of

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

the reasonable fee or commission received by the DBE if trucks are leased from a non-DBE company.

(e) DBE as a material supplier:

- (1) 60% goal credit for the cost of the materials or supplies purchased from a DBE regular dealer.
- (2) 100% goal credit for the cost of materials or supplies obtained from a DBE manufacturer.
- (3) 100% credit for the value of reasonable fees and commissions for the procurement of materials and supplies if not a regular dealer or manufacturer.

GOOD FAITH EFFORT PROCEDURES. If the bidder cannot obtain sufficient DBE commitments to meet the contract goal, the bidder must document in the Utilization Plan the good faith efforts made in the attempt to meet the goal. This means that the bidder must show that all necessary and reasonable steps were taken to achieve the contract goal. Necessary and reasonable steps are those which could reasonably be expected to obtain sufficient DBE participation. The Department will consider the quality, quantity and intensity of the kinds of efforts that the bidder has made. Mere *pro forma* efforts are not good faith efforts; rather, the bidder is expected to have taken those efforts that would be reasonably expected of a bidder actively and aggressively trying to obtain DBE participation sufficient to meet the contract goal.

- (a) The following is a list of types of action that the Department will consider as part of the evaluation of the bidder's good faith efforts to obtain participation. These listed factors are not intended to be a mandatory checklist and are not intended to be exhaustive. Other factors or efforts brought to the attention of the Department may be relevant in appropriate cases, and will be considered by the Department.
 - (1) Soliciting through all reasonable and available means (e.g. attendance at pre-bid meetings, advertising and/or written notices) the interest of all certified DBE companies that have the capability to perform the work of the contract. The bidder must solicit this interest within sufficient time to allow the DBE companies to respond to the solicitation. The bidder must determine with certainty if the DBE companies are interested by taking appropriate steps to follow up initial solicitations.
 - (2) Selecting portions of the work to be performed by DBE companies in order to increase the likelihood that the DBE goals will be achieved. This includes, where appropriate, breaking out contract work items into economically feasible units to facilitate DBE participation, even when the prime contractor might otherwise prefer to perform these work items with its own forces.
 - (3) Providing interested DBE companies with adequate information about the plans, specifications, and requirements of the contract in a timely manner to assist them in responding to a solicitation.
 - (4) a. Negotiating in good faith with interested DBE companies. It is the bidder's responsibility to make a portion of the work available to DBE subcontractors and suppliers and to select those portions of the work or material needs consistent with the available DBE subcontractors and suppliers, so as to facilitate DBE participation. Evidence of such negotiation includes the names, addresses, and telephone numbers of DBE companies that were considered; a description of the

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

information provided regarding the plans and specifications for the work selected for subcontracting; and evidence as to why additional agreements could not be reached for DBE companies to perform the work.

- b. A bidder using good business judgment would consider a number of factors in negotiating with subcontractors, including DBE subcontractors, and would take a firm's price and capabilities as well as contract goals into consideration. However, the fact that there may be some additional costs involved in finding and using DBE companies is not in itself sufficient reason for a bidder's failure to meet the contract DBE goal, as long as such costs are reasonable. Also, the ability or desire of a prime contractor to perform the work of a contract with its own organization does not relieve the bidder of the responsibility to make good faith efforts. Prime contractors are not, however, required to accept higher quotes from DBE companies if the price difference is excessive or unreasonable.
- (5) Not rejecting DBE companies as being unqualified without sound reasons based on a thorough investigation of their capabilities. The contractor's standing within its industry, membership in specific groups, organizations, or associations and political or social affiliations (for example union vs. non-union employee status) are not legitimate causes for the rejection or non-solicitation of bids in the contractor's efforts to meet the project goal.
- (6) Making efforts to assist interested DBE companies in obtaining bonding, lines of credit, or insurance as required by the recipient or contractor.
- (7) Making efforts to assist interested DBE companies in obtaining necessary equipment, supplies, materials, or related assistance or services.
- (8) Effectively using the services of available minority/women community organizations; minority/women contractors' groups; local, state, and Federal minority/women business assistance offices; and other organizations as allowed on a case-by-case basis to provide assistance in the recruitment and placement of DBE companies.
- (b) If the Department determines that the Contractor has made a good faith effort to secure the work commitment of DBE companies to meet the contract goal, the Department will award the contract provided that it is otherwise eligible for award. If the Department determines that a good faith effort has not been made, the Department will notify the bidder of that preliminary determination by contacting the responsible company official designated in the Utilization Plan. The preliminary determination shall include a statement of reasons why good faith efforts have not been found, and may include additional good faith efforts that the bidder could take. The notification will designate a five (5) working day period during which the bidder shall take additional efforts. The bidder is not limited by a statement of additional efforts, but may take other action beyond any stated additional efforts in order to obtain additional DBE commitments. The bidder shall submit an amended Utilization Plan if additional DBE commitments to meet the contract goal are secured. If additional DBE commitments sufficient to meet the contract goal are not secured, the bidder shall report the final good faith efforts made in the time allotted. All additional efforts taken by the bidder will be considered as part of the bidder's good faith efforts. If the bidder is not able to meet the goal after taking additional efforts, the Department will make a pre-final determination of the good faith efforts of the bidder and will notify the designated responsible company official of the reasons for an adverse determination.

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

(c) The bidder may request administrative reconsideration of a pre-final determination adverse to the bidder within the five (5) working days after the notification date of the determination by delivering the request to the Department of Transportation, Bureau of Small Business Enterprises, Contract Compliance Section, 2300 South Dirksen Parkway, Room 319, Springfield, Illinois 62764 (Telefax: (217)785-1524). Deposit of the request in the United States mail on or before the fifth business day shall not be deemed delivery. The pre-final determination shall become final if a request is not made and delivered. A request may provide additional written documentation and/or argument concerning the issue of whether an adequate good faith effort was made to meet the contract goal. In addition, the request shall be considered a consent by the bidder to extend the time for award. The request will be forwarded to the Department's Reconsideration Officer. The Reconsideration Officer will extend an opportunity to the bidder to meet in person in order to consider all issues of whether the bidder made a good faith effort to meet the goal. After the review by the Reconsideration Officer, the bidder will be sent a written decision within ten (10) working days after receipt of the request for reconsideration, explaining the basis for finding that the bidder did or did not meet the goal or make adequate good faith efforts to do so. A final decision by the Reconsideration Officer that a good faith effort was made shall approve the Utilization Plan submitted by the bidder and shall clear the contract for award. A final decision that a good faith effort was not made shall render the bid nonresponsive.

CONTRACT COMPLIANCE. Compliance with this Special Provision is an essential part of the contract. The Department is prohibited by federal regulations from crediting the participation of a DBE included in the Utilization Plan toward either the contract goal or the Department's overall goal until the amount to be applied toward the goals has been paid to the DBE. The following administrative procedures and remedies govern the compliance by the Contractor with the contractual obligations established by the Utilization Plan. After approval of the Plan and award of the contract, the Utilization Plan and individual DBE Participation Statements become part of the contract. If the contractor did not succeed in obtaining enough DBE participation to achieve the advertised contract goal, and the Utilization Plan was approved and contract awarded based upon a determination of good faith, the total dollar value of DBE work calculated in the approved Utilization Plan as a percentage of the awarded contract value shall become the amended contract goal.

- (a) No amendment to the Utilization Plan may be made without prior written approval from the Department's Bureau of Small Business Enterprises. All requests for amendment to the Utilization Plan shall be submitted to the Department of Transportation, Bureau of Small Business Enterprises, Contract Compliance Section, 2300 South Dirksen Parkway, Room 319, Springfield, Illinois 62764. Telephone number (217) 785-4611. Telefax number (217) 785-1524.
- (b) All work indicated for performance by an approved DBE shall be performed, managed and supervised by the DBE executing the Participation Statement. The Contractor shall not terminate for convenience a DBE listed in the Utilization Plan and then perform the work of the terminated DBE with its own forces, those of an affiliate or those of another subcontractor, whether DBE or not, without first obtaining the written consent of the Bureau of Small Business Enterprises to amend the Utilization Plan. If a DBE listed in the Utilization Plan is terminated for reasons other than convenience, or fails to complete its work on the contract for any reason, the Contractor shall make good faith efforts to find another DBE to substitute for the terminated DBE. The good faith efforts shall be directed at finding another DBE to perform at least the same amount of work under the contract as the DBE that was terminated, but only to the extent needed to meet the contract goal or the amended contract goal. The Contractor shall notify the Bureau of

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

Small Business Enterprises of any termination for reasons other than convenience, and shall obtain approval for inclusion of the substitute DBE in the Utilization Plan. If good faith efforts following a termination of a DBE for cause are not successful, the Contractor shall contact the Bureau and provide a full accounting of the efforts undertaken to obtain substitute DBE participation. The Bureau will evaluate the good faith efforts in light of all circumstances surrounding the performance status of the contract, and determine whether the contract goal should be amended.

- (c) The Contractor shall maintain a record of payments for work performed to the DBE participants. The records shall be made available to the Department for inspection upon request. After the performance of the final item of work or delivery of material by a DBE and final payment therefor to the DBE by the Contractor, but not later than thirty (30) calendar days after payment has been made by the Department to the Contractor for such work or material, the Contractor shall submit a DBE Payment Report on Department form SBE 2115 to the District Engineer. If full and final payment has not been made to the DBE, the Report shall indicate whether a disagreement as to the payment required exists between the Contractor and the DBE or if the Contractor believes that the work has not been satisfactorily completed. If the Contractor does not have the full amount of work indicated in the Utilization Plan performed by the DBE companies indicated in the Plan, the Department will deduct from contract payments to the Contractor the amount of the goal not achieved as liquidated and ascertained damages.
- (d) The Department reserves the right to withhold payment to the Contractor to enforce the provisions of this Special Provision. Final payment shall not be made on the contract until such time as the Contractor submits sufficient documentation demonstrating achievement of the goal in accordance with this Special Provision or after liquidated damages have been determined and collected.

80029

EPOXY COATINGS FOR STEEL REINFORCEMENT (BDE)

Effective: April 1, 2003

Revise Article 1006.10(b)(2) of the Standard Specifications to read:

- "(2) Epoxy Coated Reinforcement Bars. Epoxy coated reinforcement bars shall conform to the requirements of AASHTO M 284M (M 284), except:
 - a. The maximum thickness of epoxy coating on spiral reinforcement, coated after fabrication, shall be 0.5 mm (20 mils).
 - b. No more than eight of the holidays permitted shall be in any 300 mm (1 ft) of length for continuity of coating.

The epoxy coating applicator shall be certified under the Concrete Reinforcing Steel Institute's (CRSI) Epoxy Plant Certification Program.

The epoxy coater shall provide access for the Engineer at any time during production or shipping. Random bars may be checked at the epoxy coater's facility or the jobsite for coating uniformity, thickness and discontinuity; cracks on the bends; and

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

other damaged areas. Upon request, the coater shall provide samples for testing by the Engineer.

Bars may be sheared or sawn to length after coating, provided end damage to coating does not extend more than 15 mm (1/2 in.) back and the cut end is patched before any visible oxidation appears. Flame cutting will not be permitted."

Add the following paragraph after the first paragraph of Article 1006.11(b) of the Standard Specifications:

"The epoxy coating applicator shall be certified under the Concrete Reinforcing Steel Institute's (CRSI) Epoxy Plant Certification Program."

80100

EROSION AND SEDIMENT CONTROL DEFICIENCY DEDUCTION (BDE)

Effective: August 1, 2001 Revised: November 1, 2001

When the Engineer is notified or determines an erosion and/or sediment control deficiency(s) exists, he/she will direct the Contractor in writing to correct the deficiency. The Contractor shall then correct the deficiency within 24 hours. The deficiency may be any lack of repair, maintenance, or implementation of erosion and/or sediment control devices included in the contract, or any failure to comply with the conditions of the National Pollutant Discharge Elimination System (NPDES) Storm Water Permit for Construction Site Activities.

If the Contractor fails to correct the deficiency(s) within 24 hours, a daily monetary deduction will be imposed for each calendar day or fraction thereof the deficiency exists. The time period will begin with the initial written notification to the Contractor and end with the Engineer's acceptance of the corrected work. The per calendar day deduction will be either \$1000.00 or 0.05 percent of the awarded contract value, whichever is greater.

If the Contractor fails to respond, the Engineer may correct the deficiencies and deduct the cost from monies due or which may become due the Contractor. This corrective action shall in no way relieve the Contractor of his/her contractual requirements or responsibilities.

80055

FLAGGER VESTS (BDE)

Effective: April 1, 2003

Revise the first sentence of Article 701.04(c)(1) of the Standard Specifications to read:

"The flagger shall be stationed to the satisfaction of the Engineer and be equipped with a fluorescent orange, fluorescent yellow/green or a combination of fluorescent orange and fluorescent yellow/green vest meeting the requirements of the American National Standards Institute specification ANSI/ISEA 107-1999 for Conspicuity Class 2 garments and approved flagger traffic control signs conforming to Standard 702001 and Article 702.05(e)."

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

Revise Article 701.04(c)(6) of the Standard Specifications to read:

"(6) Nighttime Flagging. The flagger station shall be lit by additional overhead lighting other than streetlights. The flagger shall be equipped with a fluorescent orange or fluorescent orange and fluorescent yellow/green garment meeting the requirements of the American National Standards Institute specification ANSI/ISEA 107-1999 for Conspicuity Class 2 garments."

80101

FREEZE-THAW RATING (BDE)

Effective: November 1, 2002

Revise the first sentence of Article 1004.02(f) of the Standard Specifications to read:

"When coarse aggregate is used to produce portland cement concrete for base course, base course widening, pavement, driveway pavement, sidewalk, shoulders, curb, gutter, combination curb and gutter, median, paved ditch or their repair using concrete, the gradation permitted will be determined from the results of the Department's Freeze-Thaw Test."

80079

FURNISHED EXCAVATION (BDE)

Effective: August 1, 2002

Revise Article 204.07(b) of the Standard Specifications to read:

(b) Measured Quantities. Furnished excavation will be computed for payment in cubic meters (cubic yards) as follows:

Furnished Excavation = Embankment - [Suitable Excavation x (1 - Shrinkage Factor)]

Where:

Embankment = the volume of fill in its final position computed by the method of average end areas and based upon the existing ground line as shown on the plans except as noted in (1) and (2) below;

Suitable Excavation = earth excavation, rock excavation and other on-site excavation suitable for use in embankments; the volume of other on-site suitable excavation, whether paid for separately or included in the cost of the various items of work, will be computed by the method of average end areas;

Shrinkage Factor = 0.25 unless otherwise shown on the plans.

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

(1) If the Contractor so requests, the Engineer will reestablish the existing ground line after the clearing and tree removal have been performed according to Section 201 and the top 150 mm (6 in.) of the existing ground surface has been disked and compacted to the satisfaction of the Engineer.

(2) If settlement platforms are erected, the Engineer will reestablish the existing ground line after the embankment is complete as specified in Article 204.07(a)(2).

Furnished excavation placed in excess of that required for the execution of the contract will not be measured for payment.

80072

HAND VIBRATOR (BDE)

Effective: November 1, 2003

Add the following paragraph to Article 1103.17(a) of the Standard Specifications:

"The vibrator shall have a non-metallic head for areas containing epoxy coated reinforcement. The head shall be coated by the manufacturer. The hardness of the non-metallic head shall be less than the epoxy coated reinforcement, resulting in no damage to the epoxy coating. Slip-on covers will not be allowed."

80054

INLET FILTERS (BDE)

Effective: August 1, 2003

Add the following to Article 280.02 of the Standard Specifications:

Add the following paragraph after the first paragraph of Article 280.04(c) of the Standard Specifications:

"When specified, drainage structures shall be protected with inlet filters. Inlet filters shall be installed either directly on the drainage structure or under the grate of the drainage structure resting on the lip of the frame. The fabric bag shall hang down into the drainage structure. Prior to ordering materials, the Contractor shall determine the size and shape of the various drainage structures being protected."

Revise Article 280.07(d) of the Standard Specifications to read:

"(d) Inlet and Pipe Protection. This work will be paid for at the contract unit price per each for INLET AND PIPE PROTECTION.

Protection of drainage structures with inlet filters will be paid for at the contract unit price per each for INLET FILTERS."

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

Add the following to Article 1081.15 of the Standard Specifications:

"(h) Inlet Filters. An inlet filter shall consist of a steel frame with a two piece geotextile fabric bag attached with a stainless steel band and locking cap that is suspended from the frame. A clean, used bag and a used steel frame in good condition meeting the approval of the Engineer may be substituted for new materials. Materials for the inlet filter assembly shall conform to the following requirements:

(1) Frame Construction. Steel shall conform to Article 1006.04.

Frames designed to fit under a grate shall include an overflow feature that is welded to the frame's ring. The overflow feature shall be designed to allow full flow of water into the structure when the filter bag is full. The dimensions of the frame shall allow the drainage structure grate to fit into the inlet filter assembly frame opening. The assembly frame shall rest on the inside lip of the drainage structure frame for the full variety of existing and proposed drainage structure frames that are present on this contract. The inlet filter assembly frame shall not cause the drainage structure grate to extend higher than 6 mm (1/4 in.) above the drainage structure frame.

- (2) Grate Lock. When the inlet is located in a traffic lane, a grate lock shall be used to secure the grate to the frame. The grate lock shall conform to the manufacturer's requirements for materials and installation.
- (3) Geotextile Fabric Bag. The sediment bag shall be constructed of an inner filter bag and an outer reinforcement bag.
 - a. Inner Filter Bag. The inner filter bag shall be constructed of a polypropylene geotextile fabric with a minimum silt and debris capacity of 0.06 cu m (2.0 cu ft). The bag shall conform to the following requirements:

Inner Filter Bag									
Material Property	Test Method	Minimum Avg. Roll Value							
Grab Tensile Strength	ASTM D 4632	45 kg (100 lb)							
Grab Tensile Elongation	ASTM D 4632	50%							
Puncture Strength	ASTM D 4833	29 kg (65 lb)							
Trapezoidal Tear	ASTM D 4533	20 kg (45 lb)							
UV Resistance	ASTM D 4355	70% at 500 hours							
Actual Open Size	ASTM D 1420	212 μm (No. 70 sieve US)							
Permittivity	ASTM D 4491	2.0/sec							
Water Flow Rate	ASTM D 4491	5900 Lpm/sq m (145 gpm/sq ft)							

b. Outer Reinforcement Bag. The outer reinforcement bag shall be constructed of polyester mesh material that conforms to the following requirements:

Outer Reinforcement Bag										
Material Property	Test Method	Value								
Content	ASTM D 629	Polyester								
Weight	ASTM D 3776	155 g/sq m (4.55 oz/sq yd) ±15%								
Whales (holes)	ASTM D 3887	7.5 ± 2 holes/25 mm (1 in.)								
Chorses (holes)	ASTM D 3887	15.5 ± 2holes/25 mm (1 in.)								

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

Instronball Burst	ASTM D 3887	830 kPa (120 psi) min.
Thickness	ASTM D 1777	1.0 ± 0.1 mm (0.040 ± 0.005 in.)

(4) Certification. The manufacturer shall furnish a certification with each shipment of inlet filters, stating the amount of product furnished, and that the material complies with these requirements."

80104

PARTIAL PAYMENTS (BDE)

Effective: September 1, 2003

Revise Article 109.07 of the Standard Specifications to read:

"109.07 Partial Payments. Partial payments will be made as follows:

(a) Progress Payments. At least once each month, the Engineer will make a written estimate of the amount of work performed in accordance with the contract, and the value thereof at the contract unit prices. The amount of the estimate approved as due for payment will be vouchered by the Department and presented to the State Comptroller for payment. No amount less than \$1000.00 will be approved for payment other than the final payment.

The failure to perform any requirement, obligation, or term of the contract by the Contractor shall be reason for withholding any progress payments until the Department determines that compliance has been achieved. Furthermore, progress payments may be reduced by liens filed pursuant to Section 23(c) of the Mechanics Lien Act, 770 ILCS 60/23(c).

(b) Material Allowances. At the discretion of the Department, payment may be made for materials, prior to their use in the work, when satisfactory evidence is presented by the Contractor. Satisfactory evidence includes justification for the allowance (to expedite the work, meet project schedules, regional or national material shortages, etc.), documentation of material and transportation costs, and evidence that such material is properly stored on the project or at a secure location acceptable and accessible to the Department.

Material allowances will be considered only for nonperishable materials when the cost, including transportation, exceeds \$10,000 and such materials are not expected to be utilized within 60 days of the request for the allowance. For contracts valued under \$500,000, the minimum \$10,000 requirement may be met by combining the principal (material) product of no more than two contract items. An exception to this two item limitation may be considered for any contract regardless of value for items in which material (products) are similar except for type and/or size.

Material allowances shall not exceed the value of the contract items in which used and shall not include the cost of installation or related markups. Amounts paid by the Department for material allowances will be deducted from estimates due the Contractor as the material is used. Two-sided copies of the Contractor's cancelled checks for materials and transportation must be furnished to the Department within 60 days of payment of the allowances or the amounts will be reclaimed by the Department."

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

80116

PAVEMENT THICKNESS DETERMINATION FOR PAYMENT (BDE)

Effective: April 1, 1999 Revised: January 1, 2004

<u>Description</u>. This work shall consist of determining pavement thickness for payment for full depth bituminous concrete and all pcc pavements. Pavement pay items that individually contain at least 840 sq m (1000 sq yd) of contiguous pavement will be subject to this Special Provision with the following exclusions: temporary pavements; variable width pavement; radius returns and side streets less than 125 m (400 ft) in length; and turn lanes of constant width less than 125 m (400 ft) in length. The areas of pavement excluded from the pay adjustment as described in this Special Provision will be cored according to Article 407.10 of the Standard Specifications. Temporary pavements are defined as pavements constructed and removed under this contract.

<u>Materials</u>. Rapid set materials shall be obtained from the Department's approved list of Packaged, Dry, Rapid Hardening Cementitous Materials For Concrete Repairs. Coarse aggregate may be added to the mortar if allowed by the manufacturer's instructions on the package. Mixing shall be according to the manufacture's recommendations.

<u>Equipment</u>. Cores shall be taken utilizing an approved coring machine. The cores shall have a diameter of 50 mm (2 in.). The cores shall be measured utilizing an approved measuring device.

CONSTRUCTION REQUIREMENTS

<u>Tolerance in Thickness</u>. Determination of the pavement thickness shall be performed after the pavement surface tests and all corrective grinding are complete according to Article 407.09 of the Standard Specifications. Adjustments made in the contract unit price for pavement thickness will be in addition to and independent of those made for the Profile Index.

The pavement will be divided into approximately equal lots of not more than 1500 m (5000 ft) in length. When the length of a continuous strip of pavement is less than 1500 m (5000 ft), these short lengths of pavement, ramps, turn lanes, and other short sections of continuous pavement shall be grouped together to form lots of approximately 1500 m (5000 ft) in length. Short segments between structures will be measured continuously with the structure segments omitted. Each lot will be subdivided into ten equal sublots. The width of a sublot and lot will be the width from the pavement edge to the adjacent lane line, from one lane line to the next, or between pavement edges for single-lane pavements.

Fifty millimeter (Two inch) cores shall be taken from the pavement by the Contractor at random locations selected by the Engineer. When computing the thickness of a lot, one core will be taken per sublot. Core locations will be specified by the Engineer prior to beginning the coring operations.

The Contractor and the Engineer shall witness the coring operations, the measurement, and recording of the cores. Core measurements will be determined immediately upon removal from the core bit and prior to moving to the next core location. Upon concurrence of the length, the core samples may be discarded.

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

<u>Patching Holes</u>. Upon completion of coring, all core holes shall be filled with a rapid set mortar or concrete. Only enough water to permit placement and consolidation by rodding shall be used, and the material shall be struck-off flush with the adjacent pavement.

For a rapid set mortar mixture, one part packaged rapid set cement shall be combined with two parts fine aggregate, by volume; or a packaged rapid set mortar shall be used. For a rapid set concrete mixture, a packaged rapid set mortar shall be combined with coarse aggregate according to the manufacturer's instructions or a packaged rapid set concrete shall be used. Mixing of a rapid set mortar or concrete shall be according to the manufacturer's instructions.

Deficient Sublot. When the thickness of the core in a sublot is deficient by more than ten percent of plan thickness, the Contractor will have the option of taking three additional cores selected at random by the Engineer within the same sublot at the Contractor's expense. The thickness of the additional three cores will be averaged with the original core thickness. When the average thickness shows the sublot to be deficient by ten percent or less, no additional action is necessary. If the Contractor chooses not to take additional cores, the pavement in the sublot shall be removed and replaced at the Contractor's expense. When additional cores are taken and the average thickness of the additional cores show the sublot to be deficient by more than ten percent, the pavement in that sublot shall be removed and replaced at the Contractor's expense. When requested in writing by the Contractor, the Engineer, at his/her option, may permit in writing such thin pavement to remain in place. For Bituminous Concrete Pavement (Full Depth) allowed to remain in place, additional lift(s) may be placed, at the Contractor's expense, to bring the deficient pavement to plan thickness when the Engineer determines grade control conditions will permit such lift(s). The material thickness(es), areas to be overlaid, and method of placement used for additional lift(s) will be approved by the Engineer. When the thin pavement is removed and replaced or additional lifts are placed, the replacement pavement will be retested for thickness at the Contractor's expense. When the thin pavement is left in place and no additional lift(s) are placed, no payment will be made for the deficient pavement sublot. The thickness of the original core taken in the sublot will be used in determining the payment for the entire lot and no adjustment to the pay factor will be made for any corrective action taken.

<u>Deficient Lot</u>. After analyzing the cores, the Percent Within Limits will be calculated. A lot of pavement represented by the Percent Within Limits (PWL) of 60 percent or less, shall be removed and replaced at the Contractor's expense. When requested in writing by the Contractor, the Engineer, at his/her option, may permit in writing such pavement to remain in place. For Bituminous Concrete Pavement (Full Depth), allowed to remain in place, additional lift(s) may be placed, at the Contractor's expense, to bring the deficient pavement to plan thickness when the Engineer determines grade control conditions will permit such lift(s). The material, thickness(es), areas to be overlaid and method of placement used for the additional lift(s) will be approved by the Engineer. After either corrective action, the Contractor shall core the lot according to the "Coring Procedures" at no additional cost to the Department. The PWL will then be recalculated for the lot, however, the pay factor for the lot will be a maximum of 100 percent. When requested in writing by the Contractor, the Engineer, at his/her option, may permit in writing, the lot to remain in place. When the lot is left in place and no additional lifts are placed the pay factor for the lot will be based on the calculated PWL.

<u>Right of Discovery</u>. When the Engineer has reason to believe the random core selection process will not accurately represent the true conditions of the work, he/she may order cores in addition to those specified. The additional cores shall be taken at specific locations determined by the Engineer. The Engineer will provide notice to the Contractor containing an explanation of the reasons for his/her action. These additional cores and locations will be determined prior to commencement of coring operations. When the additional cores show the pavement to be

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

deficient by more than ten percent, additional cores shall be taken at locations determined by the Engineer to determine the limits of the deficient pavement area. The deficient pavement area will be defined as the area between two acceptable cores. An acceptable core is a core with a thickness of 90 percent or more of plan thickness. The defined pavement area shall be removed and replaced at the Contractor's expense. When requested by the Contractor, the Engineer, at his/her option, may permit in writing such thin pavement to remain in place. On Bituminous Concrete Pavement (Full Depth) allowed to remain in place, additional lift(s) may be placed to bring the deficient pavement to plan thickness when the Engineer determines that grade control conditions will permit such lift(s). The material, thickness(es), areas to be overlaid and method of placement for the additional lift(s) will be approved by the Engineer. When the thin pavement is removed and replaced or additional lifts are placed, the replacement pavement will be retested for thickness at the Contractor's expense. When the thin pavement is left in place and no additional lift(s) are placed, no payment will be made for the deficient pavement. When the additional cores show the pavement to be deficient by ten percent or less the additional cores will be paid for according to Article 109.04. When the additional cores show the pavement to be deficient by more than ten percent the additional cores taken in the deficient area shall be at the Contractor's expense.

<u>Profile Index Adjustment</u>. After any section of pavement is removed and replaced or any additional lifts are added, the corrected areas shall be tested for pavement smoothness and any necessary Profile Index adjustments and/or corrections will be made based on these final profile readings. Such surface testing shall be performed at the Contractor's expense.

<u>Core Analysis</u>. Cores will be analyzed according to the following:

(a) Definition:

x_i = Individual values (core lengths) under consideration

n = Number of individual values under consideration

(10 per lot)

x = Average of the values under consideration

LSL = Lower Specification Limit (LSL = 0.98 plan thickness for pavement)

 Q_L = Lower Quality Index

S = Sample Standard Deviation

PWL = Percent Within Limits

Determine \bar{x} for the lot to the nearest two decimal places.

Compute the sample standard deviation to the nearest three decimal places using:

$$S = \sqrt{\frac{\sum (x_i - \overline{x})^2}{n-1}} \quad \text{where} \quad \Sigma (x_i - \overline{x})^2 = (x_1 - \overline{x})^2 + (x_2 - \overline{x})^2 + \dots + (x_{10} - \overline{x})^2$$

Determine the Lower Quality Index to the nearest two decimal places using:

$$Q_{L} = \frac{\left(\bar{x} - LSL\right)}{S}$$

Determine the percentage that will fall above the Lower Specification Limit (LSL) by going to the attached Table and utilizing calculated Q_L . Read the appropriate PWL value from the Table.

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

For Q_L values less than zero the value shown in the table must be subtracted from 100 to obtain PWL.

<u>Pay Adjustment</u>. The following pay adjustment equation will be used to determine (to the nearest two decimal places) the pay factor for each lot.

Pay Factor (PF) in percent = 55 + 0.5 (PWL)

If x for a lot is less than the plan thickness, the maximum pay factor for that lot will be 100 percent.

<u>Total Payment</u>. The payment will be based on the appropriate pay items in Sections 407, 420, and 421. The final payment will be adjusted according to the following equation:

Total Payment = TPF[CUP (TOTPAVT - DEFPAVT)]

TPF = Total Pay Factor
CUP = Contract Unit Price
TOTPAVT = Area of Pavement Subject to Coring
DEFPAVT = Area of Deficient Pavement

The TPF for the entire pavement will be the average of the PF for all the lots, however, not more than 102 percent of plan quantity will be paid.

Deficient pavement is defined as an area of pavement represented by a sublot deficient by more than 10 percent which is left in place with no additional thickness added.

All work involved in determining the total payment will be included in the contract unit prices of the pay items involved.

FAI-80/94 Rte.:

Local Road Reconstruction 2001-167R Desc:

Sec.: Co.: Cook

Percent Within Limits											
Quality Index (Q _L)*	Percent Within Limits (PWL)										
0.00	50.00	0.40	65.07	0.80	78.43	1.20	88.76				
0.01	50.38	0.41	65.43	0.81	78.72	1.21	88.97				
0.02	50.77	0.42	65.79	0.82	79.02	1.22	89.17				
0.03	51.15	0.43	66.15	0.83	79.31	1.23	89.38				
0.04	51.54	0.44	66.51	0.84	79.61	1.24	89.58				
0.05	51.92	0.45	66.87	0.85	79.90	1.25	89.79				
0.06	52.30	0.46	67.22	0.86	80.19	1.26	89.99				
0.07	52.69	0.47	67.57	0.87	80.47	1.27	90.19				
0.08	53.07	0.48	67.93	0.88	80.76	1.28	90.38				
0.09	53.46	0.49	68.28	0.89	81.04	1.29	90.58				
0.10	53.84	0.50	68.63	0.90	81.33	1.30	90.78				
0.11	54.22	0.51	68.98	0.91	81.61	1.31	90.96				
0.12	54.60	0.52	69.32	0.92	81.88	1.32	91.15				
0.13	54.99	0.53	69.67	0.93	82.16	1.33	91.33				
0.14	55.37	0.54	70.01	0.94	82.43	1.34	91.52				
0.15	55.75	0.55	70.36	0.95	82.71	1.35	91.70				
0.16	56.13	0.56	70.70	0.96	82.97	1.36	91.87				
0.17	56.51	0.57	71.04	0.97	83.24	1.37	92.04				
0.18	56.89	0.58	71.38	0.98	83.50	1.38	92.22				
0.19	57.27	0.59	71.72	0.99	83.77	1.39	92.39				
0.20	57.65	0.60	72.06	1.00	84.03	1.40	92.56				
0.21	58.03	0.61	72.39	1.01	84.28	1.41	92.72				
0.22	58.40	0.62	72.72	1.02	84.53	1.42	92.88				
0.23	58.78	0.63	73.06	1.03	84.79	1.43	93.05				
0.24	59.15	0.64	73.39	1.04	85.04	1.44	93.21				
0.25	59.53	0.65	73.72	1.05	85.29	1.45	93.37				
0.26	59.90	0.66	74.04	1.06	85.53	1.46	93.52				
0.27	60.28	0.67	74.36	1.07	85.77	1.47	93.67				
0.28	60.65	0.68	74.69	1.08	86.02	1.48	93.83				
0.29	61.03	0.69	75.01	1.09	86.26	1.49	93.98				
0.30	61.40	0.70	75.33	1.10	86.50	1.50	94.13				
0.31	61.77	0.71	75.64	1.11	86.73	1.51	94.27				
0.32	62.14	0.72	75.96	1.12	86.96	1.52	94.41				
0.33	62.51	0.73	76.27	1.13	87.20	1.53	94.54				
0.34	62.88	0.74	76.59	1.14	87.43	1.54	94.68				
0.35	63.25	0.75	76.90	1.15	87.66	1.55	94.82				
0.36	63.61	0.76	77.21	1.16	87.88	1.56	94.95				
0.37	63.98	0.77	77.51	1.17	88.10	1.57	95.08				
0.38	64.34	0.78	77.82	1.18	88.32	1.58	95.20				
0.39	64.71	0.79	78.12	1.19	88.54	1.59	95.33				

Local Road Reconstruction 2001-167R Desc:

Sec.: Co.: Cook

	Percen	t Within L	imits (con	tinued)	
Quality Index (Q _L)*	Percent Within Limits (PWL)	Quality Index (Q _L)*	Percent Within Limits (PWL)	Quality Index (Q _L)*	Percent Within Limits (PWL)
1.60 1.61	95.46 95.58	2.00 2.01	98.83 98.88	2.40 2.41	99.89 99.90
1.62 1.63 1.64	95.70 95.81 95.93	2.02 2.03 2.04	98.92 98.97 99.01	2.42 2.43 2.44	99.91 99.91 99.92
1.65 1.66 1.67 1.68 1.69	96.05 96.16 96.27 96.37 96.48	2.05 2.06 2.07 2.08 2.09	99.06 99.10 99.14 99.18 99.22	2.45 2.46 2.47 2.48 2.49	99.93 99.94 99.94 99.95 99.95
1.70 1.71 1.72 1.73 1.74	96.59 96.69 96.78 96.88 96.97	2.10 2.11 2.12 2.13 2.14	99.26 99.29 99.32 99.36 99.39	2.50 2.51 2.52 2.53 2.54	99.96 99.96 99.97 99.97 99.98
1.75 1.76 1.77 1.78 1.79	97.07 97.16 97.25 97.33 97.42	2.15 2.16 2.17 2.18 2.19	99.42 99.45 99.48 99.50 99.53	2.55 2.56 2.57 2.58 2.59	99.98 99.98 99.98 99.99
1.80 1.81 1.82 1.83 1.84	97.51 97.59 97.67 97.75 97.83	2.20 2.21 2.22 2.23 2.22	99.56 99.58 99.61 99.63 99.66	2.60 2.61 2.62 2.63 2.64	99.99 99.99 99.99 100.00 100.00
1.85 1.86 1.87 1.88 1.89	97.91 97.98 98.05 98.11 98.18	2.25 2.26 2.27 2.28 2.29	99.68 99.70 99.72 99.73 99.75	<u>≥</u> 2.65	100.00
1.90 1.91 1.92 1.93 1.94	98.25 98.31 98.37 98.44 98.50	2.30 2.31 2.32 2.33 2.34	99.77 99.78 99.80 99.81 99.83		
1.95 1.96 1.97 1.98 1.99	98.56 98.61 98.67 98.72 98.78	2.35 2.36 2.37 2.38 2.39	99.84 99.85 99.86 99.87 99.88		

 $\begin{array}{c|cccc} & 1.99 & 98.78 & 2.39 & 99.88 & \\ \hline *For Q_L values less than zero, subtract the table value from 100 to obtain PWL \\ \end{array}$

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

PAYMENTS TO SUBCONTRACTORS (BDE)

Effective: June 1, 2000 Revised: September 1, 2003

Federal regulations found at 49 CFR §26.29 mandate the Department to establish a contract clause to require Contractors to pay subcontractors for satisfactory performance of their subcontracts no later than 30 days from the receipt of each payment made to the Contractor.

State law addresses the timing of payments to be made to subcontractors. Section 7 of the Prompt Payment Act, 30 ILCS 540/7, generally requires that when a Contractor receives any payment from the Department, the Contractor is required to make corresponding, proportional payments to each subcontractor performing work within 15 calendar days after receipt of the state payment. Section 7 of the State Prompt Payment Act further provides that interest in the amount of 2% per month, in addition to the payment due, shall be paid to any subcontractor by the Contractor if the payment required by the Act is withheld or delayed without reasonable cause. The Act also provides that the time for payment required and the calculation of any interest due applies to transactions between subcontractors and lower-tier subcontractors throughout the contracting chain.

This Special Provision establishes the required federal contract clause, and adopts the 15 calendar day requirement of the Act for purposes of compliance with the federal regulation regarding payments to subcontractors. This contract is subject to the following payment obligations.

As progress payments are made to the Contractor in accordance with Article 109.07 of the Standard Specifications for Road and Bridge Construction, the Contractor shall make a corresponding partial payment within 15 calendar days to each subcontractor in proportion to the work satisfactorily completed by each subcontractor. The proportionate amount of partial payment due to each subcontractor shall be determined by the quantities measured or otherwise determined as eligible for payment by the Department and included in the progress payment to the Contractor. Subcontractors shall be paid in full within 15 calendar days after the subcontractor's work has been satisfactorily completed. The Contractor shall hold no retainage from the subcontractors.

This Special Provision does not create any rights in favor of any subcontractor against the State of Illinois or authorize any cause of action against the State of Illinois on account of any payment, nonpayment, delayed payment or interest claimed by application of the State Prompt Payment Act. The Department will neither determine the reasonableness of any cause for delay of payment nor enforce any claim to payment, including interest. Moreover, the Department will not approve any delay or postponement of the 15 day requirement. State law creates remedies available to any subcontractor or material supplier, regardless of tier, who has not been paid for work properly performed or material furnished. These remedies are a lien against public funds set forth in Section 23(c) of the Mechanics Lien Act, 770 ILCS 60/23(c), and a recovery on the Contractor's payment bond in accordance with the Public Construction Bond Act, 30 ILCS 550.

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

PORTABLE CHANGEABLE MESSAGE SIGNS (BDE)

Effective: November 1, 1993

Revised: April 2, 2004

<u>Description</u>. This work shall consist of furnishing, placing, and maintaining changeable message sign(s) at the locations(s) shown on the plans or as directed by the Engineer.

The sign(s) shall be trailer mounted. The message panel shall be at least 2.1 m (7 ft) above the pavement, present a level appearance, and be capable of displaying up to eight characters in each of three lines at a time. Character height shall be 450 mm (18 in.).

The message panel shall be of either a bulb matrix or disc matrix design controlled by an onboard computer capable of storing a minimum of 99 programmed messages for instant recall. The computer shall be capable of being programmed to accept messages created by the operator via an alpha-numeric keyboard and able to flash any six messages in sequence. The message panel shall also be capable of being controlled by a computer from a remote location via a cellular linkage. The Contractor shall supply the modem, the cellular phone, and the necessary software to run the sign from a remote computer at a location designated by the Engineer. The Contractor shall promptly program and/or reprogram the computer to provide the messages as directed by the Engineer.

The message panel shall be visible from 400 m (1/4 mile) under both day and night conditions. The letters shall be legible from 250 m (750 ft).

The sign shall include automatic dimming for nighttime operation and a power supply capable of providing 24 hours of uninterrupted service.

The Contractor shall provide all preventive maintenance efforts s(he) deems necessary to achieve uninterrupted service. If service is interrupted for any cause and not restored within 24 hours, the Engineer will cause such work to be performed as may be necessary to provide this service. The cost of such work shall be borne by the Contractor or deducted from current or future compensation due the Contractor.

When the sign(s) are displaying messages, they shall be considered a traffic control device. At all times when no message is displayed, they shall be considered equipment.

<u>Basis of Payment</u>. When portable changeable message signs are shown on the Standard, this work will not be paid for separately but shall be considered as included in the cost of the Standard.

For all other portable changeable message signs, this work will be paid for at the contract unit price per calendar month for each sign as CHANGEABLE MESSAGE SIGN.

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

PORTLAND CEMENT CONCRETE (BDE)

Effective: November 1, 2002

Add the following paragraph after the fourth paragraph of Article 1103.01(b) of the Standard Specifications:

"The truck mixer shall be approved before use according to the Bureau of Materials and Physical Research's Policy Memorandum, "Approval of Concrete Plants and Delivery Trucks"."

Add the following paragraph after the first paragraph of Article 1103.01(c) of the Standard Specifications:

"The truck agitator shall be approved before use according to the Bureau of Materials and Physical Research's Policy Memorandum, "Approval of Concrete Plants and Delivery Trucks"."

Add the following paragraph after the first paragraph of Article 1103.01(d) of the Standard Specifications:

"The nonagitator truck shall be approved before use according to the Bureau of Materials and Physical Research's Policy Memorandum, "Approval of Concrete Plants and Delivery Trucks"."

Revise the first sentence of the first paragraph of Article 1103.02 of the Standard Specifications to read:

"The plant shall be approved before production begins according to the Bureau of Materials and Physical Research's Policy Memorandum, "Approval of Concrete Plants and Delivery Trucks"."

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

PRECAST CONCRETE (BDE)

Effective: July 1, 1999 Revised: January 1, 2002

<u>Description</u>. This special provision identifies non-prestressed, precast concrete products which shall be produced according to the Department's current, "Quality Control/Quality Assurance Program for Precast Concrete Products".

<u>Products</u>. The list of products is as follows:

Product Class	Precast Item						
Box Culvert	Precast Concrete Box Culverts						
Pipe	Reinforced Concrete Culvert, Storm Drain and Sewer Pipe						
	Concrete Sewer, Storm Drain and Culvert Pipe						
	Reinforced Concrete Elliptical Culvert, Storm Drain and Sewer Pipe						
	Concrete Drain Tile						
	Reinforced Concrete Arch Culvert, Storm Drain and Sewer Pipe						
	Concrete Headwall for Pipe Drains						
	Precast Reinforced Concrete Flared End Sections and Elliptical Flared End Sections						
	Precast Reinforced Concrete Pipe Elbows, Tees and Collars						
Structure	Precast Concrete Members						
Block/Brick	Erosion Control: Concrete Block Riprap, Block Revetment Mat, and Articulated Block Mat						
	Concrete Building Brick						
	Concrete Masonry Units						
Drainage Structure	Precast Reinforced Concrete Catch Basins, Manholes,						
	Inlets, Miscellaneous Structures, Valve Vaults and Flat Slab Tops/Bottoms						
Barrier	Concrete Barrier						
	Temporary Concrete Barrier						
Miscellaneous	Right of Way, Drainage, Section and Permanent						
	Survey Markers, Bumper Blocks, Junction Boxes, and Handholes						

For precast concrete products which are constructed according to AASHTO M 86, M 170, M 178, M 199, M 206, M 207, M 259, or M 273; portland or blended hydraulic cement shall be according to Article 1001.01 of the Standard Specifications, except the pozzolan constituent in the Type IP or Type I(PM) cement shall be fly ash. In addition, the minimum or maximum combination of a portland cement and a cementitious material shall be according to the AASHTO M specification. The cementitious material shall be according to Articles 1010.01, 1010.03, 1014.01, 1014.02, 1015.01, 1015.02, 1016.01 and 1016.02.

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

<u>Acceptance</u>. Products which have been lot or piece inspected and approved by the Department prior to July 1, 1999, will be accepted for use on this contract. Products produced on or after July 1, 1999, will be accepted only if produced according to the Department's current "Quality Control/Quality Assurance Program for Precast Concrete Products".

419.doc

PREFORMED RECYCLED RUBBER JOINT FILLER (BDE)

Effective: November 1, 2002

Revise Article 503.02(c) of the Standard Specifications to read:

"(c) Preformed Expansion Joint Filler1051"

Revise Article 637.02(d) of the Standard Specifications to read:

"(d) Preformed Expansion Joint Filler.......1051"

Add the following Article to Section 1051 of the Standard Specifications:

"1051.10 Preformed Recycled Rubber Joint Filler. Preformed recycled rubber joint filler shall consist of ground tire rubber, free of steel and fabric, combined with ground scrap or waste polyethylene. It shall not have a strong hydrocarbon or rancid odor and shall meet the physical property requirements of ASTM D 1752. Water absorption by volume shall not exceed 5.0 percent."

80084

RAP FOR USE IN BITUMINOUS CONCRETE MIXTURES (BDE)

Effective: January 1, 2000 Revised: April 1, 2002

Revise Article 1004.07 to read:

- "1004.07 RAP Materials. RAP is reclaimed asphalt pavement resulting from cold milling or crushing of an existing dense graded hot-mix asphalt pavement. RAP must originate from routes or airfields under federal, state or local agency jurisdiction. The Contractor shall supply documentation that the RAP meets these requirements.
 - (a) Stockpiles. The Contractor shall construct individual, sealed RAP stockpiles meeting one of the following definitions. No additional RAP will be allowed on top of the pile after the pile has been sealed.
 - (1) Homogeneous. Homogeneous RAP stockpiles shall consist of RAP from Class I/ Superpave, or equivalent mixtures only and represent the same aggregate quality, but shall be at least C quality or better, the same type of crushed aggregate (either crushed natural aggregate, ACBF slag, or steel slag), similar gradation and similar AC content. If approved by the Engineer, combined single pass surface/binder

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

millings may be considered "homogenous", with a quality rating dictated by the lowest coarse aggregate quality present in the mixture. Homogenous stockpiles shall meet the requirements of Article 1004.07(d). Homogeneous RAP stockpiles not meeting these requirements may be processed (crushing and screening) and retested.

- (2) Conglomerate. Conglomerate RAP stockpiles shall consist of RAP from Class I/ Superpave, or equivalent mixtures only. The coarse aggregate in this RAP shall be crushed aggregate only and may represent more than one aggregate type and/or quality but shall be at least C quality or better. This RAP may have an inconsistent gradation and/or asphalt cement content prior to processing. All conglomerate RAP shall be processed prior to testing by crushing to where all RAP shall pass the 16 mm (5/8 in.) or smaller screen. Conglomerate RAP stockpiles shall not contain steel slag or other expansive material as determined by the Department. Conglomerate RAP stockpiles shall meet the requirements of Article 1004.07(d).
- (3) Conglomerate "D" Quality (DQ). Conglomerate DQ RAP stockpiles shall consist of RAP containing coarse aggregate (crushed or round) that is at least D quality or better. This RAP may have an inconsistent gradation and/or asphalt content. Conglomerate DQ RAP stockpiles shall not contain steel slag or other expansive material as determined by the Department. Conglomerate DQ RAP shall meet the requirements of Article 1004.07(d).

Reclaimed Superpave Low ESAL IL-9.5L surface mixtures shall only be placed in conglomerate DQ RAP stockpiles due to the potential for rounded aggregate.

- (4) Other. RAP stockpiles that do not meet the requirements of the stockpile categories listed above shall be classified as "Other". "Other" RAP stockpiles shall not be used in any of the Department's bituminous mixtures.
- (b) Use. The allowable use of a RAP stockpile shall be set by the lowest quality of coarse aggregate in the RAP stockpile. Class I/Superpave surface mixtures are designated as containing Class B quality coarse aggregate only. Superpave Low ESAL IL-19.0L binder and IL-9.5L surface mixtures are designated as Class C quality coarse aggregate only. Class I/Superpave binder mixtures, bituminous base course mixtures, and bituminous base course widening mixtures are designated as containing Class C quality coarse aggregate only. Bituminous stabilized subbase and BAM shoulders are designated as containing Class D quality coarse aggregate only. Any mixture not listed above shall have the designated quality determined by the Department.

RAP containing steel slag or other expansive material, as determined by the Department, shall be homogeneous and will be approved for use in Class I/Superpave (including Low ESAL) surface mixtures only. RAP stockpiles for use in Class I/Superpave mixtures (including Low ESAL), base course, base course widening and Class B mixtures shall be either homogeneous or conglomerate RAP stockpiles except conglomerate RAP stockpiles shall not be used in Superpave surface mixture Ndesign 50 or greater. RAP for use in bituminous aggregate mixtures (BAM) shoulders and BAM stabilized subbase shall be from homogeneous, conglomerate, or conglomerate DQ stockpiles.

Additionally, RAP used in Class I/Superpave surface mixtures shall originate from milled or crushed mixtures only, in which the coarse aggregate is of Class B quality or better. RAP stockpiles for use in Class I/Superpave (including Low ESAL) binder mixes as well

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

as base course, base course widening and Class B mixtures shall originate from milled or processed surface mixture, binder mixture, or a combination of both mixtures uniformly blended to the satisfaction of the Engineer, in which the coarse aggregate is of Class C quality or better.

- (c) Contaminants. RAP containing contaminants, such as earth, brick, sand, concrete, sheet asphalt, bituminous surface treatment (i.e. chip seal), pavement fabric, etc., will be unacceptable unless the contaminants are removed to the satisfaction of the Engineer. Sheet asphalt shall be stockpiled separately.
- (d) Testing. All RAP shall be sampled and tested either during or after stockpiling.

For testing during stockpiling, washed extraction samples shall be run at the minimum frequency of one sample per 450 metric tons (500 tons) for the first 1800 metric tons (2,000 tons) and one sample per 1800 metric tons (2,000 tons) thereafter. A minimum of five tests shall be required for stockpiles less than 3600 metric tons (4,000 tons).

For testing existing stockpiles, the Contractor shall submit a plan for approval to the District proposing a satisfactory method of sampling and testing the RAP pile either insitu or by restockpiling. The sampling plan shall meet the minimum frequency required above and detail the procedure used to extract representative samples throughout the pile for testing.

Before extraction, each field sample shall be split to test sample size. One of the two test samples from the final split shall be labeled and stored for Department use. The Contractor shall extract the other test sample according to Department procedure. The Engineer reserves the right to test any sample (split or Department-taken) to verify Contractor test results.

All of the extraction results shall be compiled and averaged for asphalt content and gradation. Individual extraction test results, when compared to the averages, will be accepted if within the tolerances listed below.

Parameter	Homogeneous / Conglomerate	Conglomerate "D" Quality
25 mm (1 in.)		± 5%
12.5 mm (1/2 in.)	± 8%	± 15%
4.75 mm (No. 4)	± 6%	± 13%
2.36 mm (No. 8)	± 5%	
1.18 mm (No. 16)		± 15%
600 μm (No. 30)	± 5%	
75 μm (No. 200)	$\pm~2.0\%$	± 4.0%
AC	$\pm~0.4\%$	± 0.5%

If more than 20 percent of the individual sieves are out of the gradation tolerances, or if more than 20 percent of the asphalt content test results fall outside the appropriate tolerances, the RAP will not be allowed to be used in the Department's bituminous concrete mixtures unless the RAP representing the failing tests is removed from the stockpile to the satisfaction of the Engineer. All test data and acceptance ranges shall be sent to the District for evaluation.

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

With the approval of the Engineer, the ignition oven may be substituted for extractions according to the Illinois Test Procedure, "Calibration of the Ignition Oven for the Purpose of Characterizing Reclaimed Asphalt Pavement (RAP)".

(e) Designs. At the Contractor's option, bituminous concrete mixtures may be constructed utilizing RAP material meeting the above detailed requirements. The amount of RAP included in the mixture shall not exceed the percentages specified in the plans.

RAP designs shall be submitted for volumetric verification. If additional RAP stockpiles are tested and found that no more than 20 percent of the results, as defined under "Testing" herein, are outside of the control tolerances set for the original RAP stockpile and design, and meets all of the requirements herein, the additional RAP stockpiles may be used in the original mix design at the percent previously verified.

(f) Production. The coarse aggregate in all RAP used shall be equal to or less than the nominal maximum size requirement for the bituminous mixture being produced.

To remove or reduce agglomerated material, a scalping screen, crushing unit or comparable sizing device approved by the Engineer shall be used in the RAP feed system to remove or reduce oversized material. If material passing the sizing device adversely affects the mix production or quality of the mix, the sizing device shall be set at a size specified by the Engineer.

If the RAP control tolerances or QC/QA test results require corrective action, the Contractor shall cease production of the mixture containing RAP and either switch to the virgin aggregate design or submit a new RAP design.

80011

STONE FOR EROSION PROTECTION, SEDIMENT CONTROL, AND ROCKFILL (BDE)

Effective: January 1, 2004

Revise the first, second, and third sentences of Article 281.04(a) of the Standard Specifications to read:

"Class A1 bedding material shall be used with riprap Classes A4, A5, B4, and B5. Class A2 bedding material shall be used with riprap Classes A6, A7, B6, and B7. When filter fabric is used, the following substitutions of bedding material may be made: Quality B may be used in lieu of Quality A; Gradation CA 3 may be used in lieu of Gradation RR 1; and Gradation CA 1 may be used in lieu of Gradation RR 2."

Revise Article 1005.01 of the Standard Specifications to read:

"1005.01 Stone for Erosion Protection, Sediment Control, and Rockfill. The material will be sampled and inspected according to the Bureau of Materials and Physical Research's policy memorandum, "Inspection of Stone for Erosion Protection, Sediment Control, and Rockfill". The material shall meet the following requirements.

(a) Description. The material shall be stone, quarried from undisturbed, consolidated deposits (ledges) of rock reasonably free of shale and shaly stone. The ledges shall be sufficiently thick to produce the desired dimensions. The stone shall be reasonably free

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

of laminations, seams, cracks, and other structural defects or imperfections tending to destroy its resistance to weather. Field stone or boulders will not be accepted.

Bedding material shall be crushed stone, crushed gravel, crushed sandstone, or crushed slag meeting the requirements of Article 1004.01(a).

- (b) Quality. The stone shall meet the following quality requirements.
 - (1) Stone for Erosion Protection or Sediment Control. The material shall be quarried from ledges meeting the quality designations listed in the following table.

QUALITY OF STONE FOR EROSION PROTECTION AND SEDIMENT CONTROL										
QUALITY TEST QUALITY A 2/3/4/ QUALITY B 2/										
Na ₂ SO ₄ Soundness 5 Cycle, AASHTO T 104 ^{1/} Max. % Loss	15	25								

- 1/ As modified by the Department.
- 2/ Elongated pieces (length is greater than five times the average thickness) shall not exceed ten percent by weight.
- 3/ The stone, when checked in a full gradation product, shall have a specific gravity (dry) greater than 2.450 as determined by the Department.
- 4/ The stone shall be reasonably free of chert.

In addition to the above quality requirements, crushed slag used as a bedding material shall also meet the Department's "Test for Leachate".

- (2) Stone for Rockfill. The material shall be quarried from ledges consisting of sound, durable rock reasonably free of objectionable, deleterious material as determined by the Department.
- (c) Gradation. The stone shall meet the following gradation requirements.
 - (1) Stone for Erosion Protection or Sediment Control. The material shall meet the gradation limits listed in the following tables. All gradations produced shall be well graded.

	BEDDING MATERIAL GRADATIONS											
GRAD. NO.		Percent Passing Sieves										
GIVAD. NO.	100 mm	100 mm										
RR 1		100		53±23	8±8							
RR 2	100		53±23		8±8							

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

ВІ	BEDDING MATERIAL GRADATIONS (ENGLISH)										
GRAD. NO.		Percent Passing Sieves									
GRAD. NO.	4 in.	3 in.	1 1/2 in.	No. 4							
RR 1		100		53±23	8±8						
RR 2	100		53±23		8±8						

	EROSION PROTECTION AND SEDIMENT CONTROL GRADATIONS													
Grad.	Percent Passing Rock Size (kg)													
No.	455 ^{1/}	270 ^{1/}	180 ^{1/}	135	75	70 ^{1/}	40	20 ^{1/}	18	5	4	3	1	0.5
RR 3								100			50±20			8±8
RR 4						100			50±20					8±8
RR 5			100				50±20						8±8	
RR 6		100			50±20							8±8		
RR 7	100			50±20						8±8				

	EROSION PROTECTION AND SEDIMENT CONTROL GRADATIONS													
Grad.	Percent Passing Rock Size (lb)													
No.	1000 ^{1/}	600 ^{1/}	400 ^{1/}	300	170	150 ^{1/}	90	50 ^{1/}	40	12	10	6	3	1
RR 3								100			50±20			8±8
RR 4						100			50±20					8±8
RR 5			100				50±20						8±8	
RR 6		100			50±20							8±8		
RR 7	100			50±20						8±8				

- 1/ Five percent by weight may be oversize. Each oversize piece shall not exceed the maximum size of the gradation by more than 20 percent.
- (2) Stone for Rockfill. The material may be shot rock, primary crusher run, or other specified gradations approved by the Department."

80117

SUBGRADE PREPARATION (BDE)

Effective: November 1, 2002

Revise the tenth paragraph of Article 301.03 of the Standard Specifications to read:

"Equipment of such weight, or used in such a way as to cause a rut in the finished subgrade of 13 mm (1/2 in.) or more in depth, shall be removed from the work or the rutting otherwise prevented."

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

SUPERPAVE BITUMINOUS CONCRETE MIXTURES (BDE)

Effective: January 1, 2000 Revised: April 1, 2004

<u>Description</u>. This work shall consist of designing, producing and constructing Superpave bituminous concrete mixtures using Illinois Modified Strategic Highway Research Program (SHRP) Superpave criteria. This work shall be according to Sections 406 and 407 of the Standard Specifications and the special provision, "Quality Control/Quality Assurance of Bituminous Concrete Mixtures", except as follows.

Materials.

- (a) Fine Aggregate Blend Requirement. The Contractor may be required to provide FA 20 manufactured sand to meet the design requirements. For mixtures with Ndesign ≥ 90, at least 50 percent of the required fine aggregate fraction shall consist of either stone sand, slag sand, or steel slag sand meeting the FA/FM 20 gradation.
- (b) Reclaimed Asphalt Pavement (RAP). If the Contractor is allowed to use more than 15 percent RAP, as specified in the plans, a softer performance-graded binder may be required as determined by the Engineer.

RAP shall meet the requirements of the special provision, "RAP for Use in Bituminous Concrete Mixtures".

RAP will not be permitted in mixtures containing polymer modifiers.

RAP containing steel slag will be permitted for use in top-lift surface mixtures only.

(c) Bituminous Material. The asphalt cement (AC) shall be performance-graded (PG) or polymer modified performance-graded (SBS-PG or SBR-PG) meeting the requirements of Article 1009.05 of the Standard Specifications for the grade specified on the plans.

The following additional guidelines shall be used if a polymer modified asphalt is specified:

- (1) The polymer modified asphalt cement shall be shipped, maintained, and stored at the mix plant according to the manufacturer's requirements. Polymer modified asphalt cement shall be placed in an empty tank and shall not be blended with other asphalt cements.
- (2) The mixture shall be designed using a mixing temperature of 163 ± 3 °C (325 ± 5 °F) and a gyratory compaction temperature of 152 ± 3 °C (305 ± 5 °F).
- (3) Pneumatic-tired rollers will not be allowed unless otherwise specified by the Engineer. A vibratory roller meeting the requirements of Article 406.16 of the Standard Specifications shall be required in the absence of the pneumatic-tired roller.

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

Laboratory Equipment.

(a) Superpave Gyratory Compactor. The superpave gyratory compactor (SGC) shall be used for all QC/QA testing.

(b) Ignition Oven. The ignition oven shall be used to determine the AC content. The ignition oven shall also be used to recover aggregates for all required washed gradations.

The Engineer may waive the ignition oven requirement for AC content if the aggregates to be used are known to have ignition AC content calibration factors which exceed 1.5 percent. If the ignition oven requirement is waived, other Department approved methods shall be used to determine the AC content.

<u>Mixture Design</u>. The Contractor shall submit mix designs, for approval, for each required mixture. Mix designs shall be developed by Level III personnel who have successfully completed the course, "Superpave Mix Design Upgrade". Articles 406.10 and 406.13 of the Standard Specifications shall not apply. The mixtures shall be designed according to the respective Illinois Modified AASHTO references listed below.

AASHTO MP 2	Standard Specification for Superpave Volumetric Mix Design
AASHTO R 30	Standard Practice for Mixture Conditioning of Hot-Mix Asphalt (HMA)
AASHTO PP 28	Standard Practice for Designing Superpave HMA
AASHTO T 209	Theoretical Maximum Specific Gravity and Density of Bituminous Paving Mixtures
AASHTO T 312	Preparing and Determining the Density of Hot Mix Asphalt (HMA) Specimens by Means of the Superpave Gyratory Compactor
AASHTO T 308	Determining the Asphalt Content of Hot Mix Asphalt (HMA) by the Ignition Method

(a) Mixture Composition. The ingredients of the bituminous mixture shall be combined in such proportions as to produce a mixture conforming to the composition limits by weight. The gradation mixture specified on the plans shall produce a mixture falling within the limits specified in Table 1.

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

TABLE 1. MIXTURE COMPOSITION (% PASSING) ^{1/}									
Sieve	IL-25.0 mm IL-19.0 mm			IL-12.5 mm ^{4/}		IL-9.5 mm ^{4/}			
Size	min	max	min	max	Min	max	min	max	
37.5 mm (1 1/2 in.)		100							
25 mm (1 in.)	90	100		100					
19 mm (3/4 in.)		90	82	100		100			
12.5 mm (1/2 in.)	45	75	50	85	90	100		100	
9.5 mm (3/8 in.)						89	90	100	
4.75 mm (#4)	24	42 ^{2/}	24	50 ^{2/}	28	65	28	65	
2.36 mm (#8)	16	31	20	36	28	48 ^{3/}	28	48 ^{3/}	
1.18 mm (#16)	10	22	10	25	10	32	10	32	
600 μm (#30)									
300 μm (#50)	4	12	4	12	4	15	4	15	
150 μm (#100)	3	9	3	9	3	10	3	10	
75 μm (#200)	3	6	3	6	4	6	4	6	

- 1/ Based on percent of total aggregate weight.
- 2/ The mixture composition shall not exceed 40 percent passing the 4.75 mm (#4) sieve for binder courses with Ndesign ≥ 90.
- 3/ The mixture composition shall not exceed 40 percent passing the 2.36 mm (#8) sieve for surface courses with Ndesign \geq 90.
- 4/ The mixture composition for surface courses shall be according to IL-12.5 mm or IL-9.5 mm, unless otherwise specified by the Engineer.

One of the above gradations shall be used for leveling binder as specified in the plans and according to Article 406.04 of the Standard Specifications.

It is recommended that the selected combined aggregate gradation not pass through the restricted zones specified in Illinois Modified AASHTO MP 2.

(b) Dust/AC Ratio for Superpave. The ratio of material passing the 75 μ m (#200) sieve to total asphalt cement shall not exceed 1.0 for mixture design (based on total weight of mixture).

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

(c) Volumetric Requirements. The target value for the air voids of the hot mix asphalt (HMA) shall be 4.0 percent at the design number of gyrations. The VMA and VFA of the HMA design shall be based on the nominal maximum size of the aggregate in the mix and shall conform to the requirements listed in Table 2.

TABLE 2. VOLUMETRIC REQUIREMENTS									
	V	oids in the M (V % m	Voids Filled with Asphalt (VFA),						
Ndesign	IL-25.0	IL-19.0	IL-12.5	IL-9.5	%				
50					65 - 78				
70	12.0	12.0	14.0	15					
90	12.0	13.0	14.0	15	65 - 75				
105									

(d) Determination of Need for Anti-Stripping Additive. The mixture designer shall determine if an additive is needed in the mix to prevent stripping. The determination will be made on the basis of tests performed according to Illinois Modified T 283 using 4 in. Marshall bricks. To be considered acceptable by the Department as a mixture not susceptible to stripping, the ratio of conditioned to unconditioned split tensile strengths (TSRs) shall be equal to or greater than 0.75. Mixtures, either with or without an additive, with TSRs less than 0.75 will be considered unacceptable.

If it is determined that an additive is required, the additive may be hydrated lime, slaked quicklime, or a liquid additive, at the Contractor's option. The liquid additive shall be selected from the Department's list of approved additives and may be limited to those which have exhibited satisfactory performance in similar mixes.

Dry hydrated lime shall be added at a rate of 1.0 to 1.5 percent by weight of total dry aggregate. Slurry shall be added in such quantity as to provide the required amount of hydrated lime solids by weight of total dry aggregate. The exact rate of application for all anti-stripping additives will be determined by the Department. The method of application shall be according to Article 406.12 of the Standard Specifications.

<u>Personnel</u>. The QC Manager and Level I Technician shall have successfully completed the Department's "Superpave Field Control Course".

Required Plant Tests. Testing shall be conducted to control the production of the bituminous mixture. The Contractor shall use the test methods identified to perform the following mixture tests at a frequency not less than that indicated in Table 3.

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

TABLE 3. REQUIRED PLANT TESTS for SUPERPAVE						
Parameter		Frequency of Tests	Test Method			
Aggregate Gradation Hot bins for batch and continuous plants		dry gradation per day of production (either morning or afternoon sample). And	Illinois Procedure (See Manual of Test Procedures for Materials).			
Individual cold-feeds or combined belt-feed for drier drum plants.		1 washed ignition oven test on the mix per day of production (conduct in afternoon if dry gradation is conducted in the morning or vice versa).				
(% passing sieves: 12.5 mm (1/2 in.), 4.75 mm (No. 4), 2.36 mm (No. 8), 600 µm (No. 30), 75 µm (No. 200))		NOTE. The order in which the above tests are conducted shall alternate from the previous production day (example: a dry gradation conducted in the morning will be conducted in the afternoon on the next production day and so forth).				
		The dry gradation and washed ignition oven test results shall be plotted on the same control chart.				
Asphalt Content by Ignition Oven (Note 1.)		1 per half day of production	Illinois Modified AASHTO T 308			
Air Voids	Bulk Specific Gravity of Gyratory Sample	1 per half day of production for first 2 days and 1 per day thereafter (first sample of the day)	Illinois Modified AASHTO T 312			
	Maximum Specific Gravity of Mixture		Illinois Modified AASHTO T 209			

Note 1. The Engineer may waive the ignition oven requirement for AC content if the aggregates to be used are known to have ignition AC content calibration factors which exceed 1.5 percent. If the ignition oven requirement is waived, other Department approved methods shall be used to determine the AC content.

During production, the ratio of minus 75 μ m (#200) sieve material to total asphalt cement shall be not less than 0.6 nor more than 1.2 and the moisture content of the mixture at discharge from the mixer shall not exceed 0.5 percent. If at any time the ratio of minus 75 μ m (#200) material to asphalt or moisture content of the mixture falls outside the stated limits, production of the mix shall cease. The cause shall be determined and corrective action satisfactory to the Engineer shall be initiated prior to resuming production.

During production, mixtures containing an anti-stripping additive will be tested by the Department for stripping according to Illinois Modified T 283. If the mixture fails to meet the TSR criteria for acceptance, no further mixture will be accepted until the Contractor takes such action as is necessary to furnish a mixture meeting the criteria.

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

Construction Requirements

Lift Thickness.

(a) Binder and Surface Courses. The minimum compacted lift thickness for constructing bituminous concrete binder and surface courses shall be according to Table 4:

TABLE 4 – MINIMUM COMPACTED LIFT THICKNESS				
Mixture	Thickness, mm (in.)			
IL-9.5	32 (1 1/4)			
IL-12.5	38 (1 1/2)			
IL-19.0	57 (2 1/4)			
IL-25.0	76 (3)			

(b) Leveling Binder. Mixtures used for leveling binder shall be as follows:

TABLE 5 – LEVELING BINDER		
Nominal, Compacted, Leveling	Mixture	
Binder Thickness, mm (in.)		
≤ 32 (1 1/4)	IL-9.5	
32 (1 1/4) to 50 (2)	IL 9.5 or IL-12.5	

Density requirements shall apply for leveling binder when the nominal, compacted thickness is 32 mm (1 1/4 in.) or greater for IL-9.5 mixtures and 38 mm (1 1/2 in.) or greater for IL-12.5 mixtures.

(c) Full-Depth Pavement. The compacted thickness of the initial lift of binder course shall be 100 mm (4 in.). The compacted thickness of succeeding lifts shall meet the minimums specified in Table 4 but not exceed 100 mm (4 in.).

If a vibratory roller is used for breakdown, the compacted thickness of the binder lifts, excluding the top lift, may be increased to 150 mm (6 in.) provided the required density is obtained.

(d) Bituminous Patching. The minimum compacted lift thickness for constructing bituminous patches shall be according to Table 4.

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

<u>Control Charts/Limits</u>. Control charts/limits shall be according to QC/QA Class I requirements, except density shall be plotted on the control charts within the following control limits:

TABLE 6. DENSITY CONTROL LIMITS				
Mixture	Parameter	Individual Test		
12.5 mm / 9.5 mm	Ndesign ≥ 90	92.0 - 96.0%		
12.5 mm / 9.5 mm	Ndesign < 90	92.5 – 97.4%		
19.0 mm / 25.0 mm	Ndesign ≥ 90	93.0 - 96.0%		
19.0 mm / 25.0 mm	Ndesign < 90	93.0 - 97.4%		

<u>Basis of Payment</u>. On resurfacing projects, this work will be paid for at the contract unit price per metric ton (ton) for BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, of the friction aggregate mixture and Ndesign specified, LEVELING BINDER (HAND METHOD), SUPERPAVE, of the Ndesign specified, LEVELING BINDER (MACHINE METHOD), SUPERPAVE, of the Ndesign specified, and BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE, of the mixture composition and Ndesign specified.

On resurfacing projects in which polymer modifiers are required, this work will be paid for at the contract unit price per metric ton (ton) for POLYMERIZED BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, of the friction aggregate mixture and Ndesign specified, POLYMERIZED LEVELING BINDER (HAND METHOD), SUPERPAVE, of the Ndesign specified, POLYMERIZED LEVELING BINDER (MACHINE METHOD), SUPERPAVE, of the Ndesign specified, and POLYMERIZED BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE, of the mixture composition and Ndesign specified.

On full-depth pavement projects, this work will be paid for at the contract unit price per square meter (square yard) for BITUMINOUS CONCRETE PAVEMENT, (FULL-DEPTH), SUPERPAVE, of the thickness specified.

On projects where widening is constructed and the entire pavement is then resurfaced, the binder for the widening will be paid for at the contract unit price per square meter (square yard) for BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE, of the mixture composition, Ndesign, and thickness specified. The surface and binder used to resurface the entire pavement will be paid for according to the paragraphs above for resurfacing projects.

80010

TEMPORARY CONCRETE BARRIER (BDE)

Effective: October 1, 2002 Revised: November 1, 2003

Revise Section 704 of the Standard Specifications to read:

"SECTION 704. TEMPORARY CONCRETE BARRIER

704.01 Description. This work shall consist of furnishing, placing, maintaining, relocating and removing precast concrete barrier at temporary locations as shown on the plans or as directed by the Engineer.

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

704.02 Materials. Materials shall meet the requirements of the following Articles of Section 1000 - Materials:

(d) Connecting Loop Bars (Note 2)
(e) Rapid Set Mortar (Note 3)

Note 1. Reinforcement bars shall be Grade 400 (Grade 60).

Note 2. Connecting loop bars shall be smooth bars conforming to the requirements of ASTM A 36.

Note 3. Rapid set materials shall be obtained from the Department's approved list of Packaged, Dry, Rapid Hardening Cementitous Materials for Concrete Repairs. For a rapid set mortar mixture, one part packaged rapid set cement shall be combined with two parts fine aggregate, by volume or a packaged rapid set mortar shall be used. Mixing of the rapid set mortar shall be according to the manufacturer's instructions.

CONSTRUCTION REQUIREMENTS

704.03 General. Precast concrete barrier produced after October 1, 2002 shall meet National Cooperative Highway Research Program (NCHRP) Report 350, Category 3, Test Level 3 requirements and have the F shape. Precast concrete barrier shall be constructed according to the Bureau of Materials and Physical Research's Policy Memorandum "Quality Control/Quality Assurance Program for Precast Concrete Products", applicable portions of Sections 504 and 1020, and to the details shown on the plans.

Precast units shall not be removed from the casting beds until a flexural strength of 2,000 kPa (300 psi) or a compressive strength of 10,000 kPa (1400 psi) is attained. When the concrete has attained a compressive strength according to Article 1020.04, and not prior to four days after casting, the units may be loaded, shipped and used.

704.04 Installation. F shape barrier units shall be seated on bare, clean pavement or paved shoulder and pinned together in a smooth, continuous line at the exact locations provided by the Engineer. The barrier unit at each end of the installation shall be secured to the pavement or paved shoulder using six anchoring pins and protected with an impact attenuator as shown on the plans.

F shape and New Jersey shape barrier units shall not be mixed in the same run.

Barrier units or attachments damaged during transportation or handling, or by traffic during the life of the installation, shall be repaired or replaced by the Contractor at his/her expense. The Engineer will be the sole judge in determining which units or attachments require repair or replacement.

The temporary barriers shall be removed when no longer required by the contract. After removal, all anchoring holes in the pavement or paved shoulder shall be filled with a rapid set mortar. Only enough water to permit placement and consolidation by rodding shall be used and the material shall be struck-off flush.

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

704.05 New Jersey Shape Barrier. New Jersey shape barrier produced prior to October 1, 2002 according to earlier Department standards, may be used until January 1, 2008.

Barrier units or attachments damaged during transportation or handling, or by traffic during the life of the installation, shall be repaired or replaced by the Contractor at his/her expense. The Engineer will be the sole judge in determining which units or attachments require repair or replacement.

F shape and New Jersey shape barrier units shall not be mixed in the same run.

The barrier unit at each end of the installation shall be secured to the pavement or paved shoulder using six dowel bars and protected with an impact attenuator as shown on the plans.

The temporary barriers shall be removed when no longer required by the contract. After removal, all anchoring holes in the pavement or paved shoulder shall be filled with a rapid set mortar. Only enough water to permit placement and consolidation by rodding shall be used and the material shall be struck-off flush.

- **704.06 Method of Measurement.** Temporary concrete barrier will be measured for payment in meters (feet) in place along the centerline of the barrier. When temporary concrete barrier is relocated within the limits of the jobsite, the relocated barrier will be measured for payment in meters (feet) in place along the centerline of the barrier.
- **704.07** Basis of Payment. When the Contractor furnishes the barrier units, this work will be paid for at the contract unit price per meter (foot) for TEMPORARY CONCRETE BARRIER or RELOCATE TEMPORARY CONCRETE BARRIER.

When the Department furnishes the barrier units, this work will be paid for at the contract unit price per meter (foot) for TEMPORARY CONCRETE BARRIER, STATE OWNED or RELOCATE TEMPORARY CONCRETE BARRIER, STATE OWNED.

Impact attenuators will be paid for separately."

80092

TRAFFIC CONTROL DEFICIENCY DEDUCTION (BDE)

Effective: April 1, 1992 Revised: January 1, 2003

To ensure a prompt response to incidents involving the integrity of work zone traffic control, the Contractor shall provide a telephone number where a responsible individual can be contacted 24 hours-a-day.

When the Engineer is notified, or determines a traffic control deficiency exists, he/she will notify and direct the Contractor to correct the deficiency within a specified time. The specified time, which begins upon notification to the Contractor, will be from ½ hour to 12 hours based upon the urgency of the situation and the nature of the deficiency. The Engineer shall be the sole judge.

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

The deficiency may be any lack of repair, maintenance or non-compliance with the traffic control plan.

If the Contractor fails to correct the deficiency within the specified time, a daily monetary deduction will be imposed for each calendar day or fraction thereof the deficiency exists. The calendar day(s) will begin with notification to the Contractor and end with the Engineer's acceptance of the correction. The daily monetary deduction will be either \$1,000 or 0.05 percent of the awarded contract value, whichever is greater.

In addition, if the Contractor fails to respond, the Engineer may correct the deficiency and the cost thereof will be deducted from monies due or which may become due the Contractor. This corrective action will in no way relieve the Contractor of his/her contractual requirements or responsibilities.

57291

TRAINING SPECIAL PROVISIONS

This Training Special Provision supersedes Section 7b of the Special Provision entitled "Specific Equal Employment Opportunity Responsibilities," and is in implementation of 23 U.S.C. 140(a).

As part of the contractor's equal employment opportunity affirmative action program, training shall be provided as follows:

The contractor shall provide on-the-job training aimed at developing full journeyman in the type of trade or job classification involved. The number of trainees to be trained under this contract will be 13. In the event the contractor subcontracts a portion of the contract work, he shall determine how many, if any, of the trainees are to be trained by the subcontractor, provided however, that the contractor shall retain the primary responsibility for meeting the training requirements imposed by this special provision. The contractor shall also insure that this Training Special Provision is made applicable to such subcontract. Where feasible, 25 percent of apprentices or trainees in each occupation shall be in their first year of apprenticeship or training.

The number of trainees shall be distributed among the work classifications on the basis of the contractor's needs and the availability of journeymen in the various classifications within the reasonable area of recruitment. Prior to commencing construction, the contractor shall submit to the Illinois Department of Transportation for approval the number of trainees to be trained in each selected classification and training program to be used. Furthermore, the contractor shall specify the starting time for training in each of the classifications. The contractor will be credited for each trainee employed by him on the contract work who is currently enrolled or becomes enrolled in an approved program and will be reimbursed for such trainees as provided hereinafter.

Training and upgrading of minorities and women toward journeyman status is a primary objective of this Training Special Provision. Accordingly, the contractor shall make every effort to enroll minority trainees and women (e.g. by conducting systematic and direct recruitment through public and private sources likely to yield minority and women trainees) to the extent such persons are available within a reasonable area of recruitment. The contractor will be responsible for demonstrating the steps that he has taken in pursuance thereof, prior to a determination as to whether the contractor is in compliance with this Training Special Provision. This training commitment is not intended, and shall not be used, to discriminate against any applicant for training, whether a member of a minority group or not.

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

No employee shall be employed as a trainee in any classification in which he has successfully completed a training course leading to journeyman status or in which he has been employed as a journeyman. The contractor should satisfy this requirement by including appropriate questions in the employee application or by other suitable means. Regardless of the method used the contractor's records should document the findings in each case.

The minimum length and type of training for each classification will be as established in the training program selected by the contractor and approved by the Illinois Department of Transportation and the Federal Highway Administration. The Illinois Department of Transportation and the Federal Highway Administration shall approve a program, if it is reasonably calculated to meet the equal employment opportunity obligations of the contractor and to qualify the average trainee for journeyman status in the classification concerned by the end of the training period. Furthermore, apprenticeship programs registered with the U.S. Department of Labor, Bureau of Apprenticeship and Training, or with a State apprenticeship agency recognized by the Bureau and training programs approved by not necessarily sponsored by the U.S. Department of Labor, Manpower Administration, Bureau of Apprenticeship and Training shall also be considered acceptable provided it is being administered in a manner consistent with the equal employment obligations of Federal-aid highway construction contracts. Approval or acceptance of a training program shall be obtained from the State prior to commencing work on the classification covered by the program. It is the intention of these provisions that training is to be provided in the construction crafts rather then clerk-typists or secretarial-type positions. Training is permissible in lower level management positions such as office engineers, estimators, timekeepers, etc., where the training is oriented Training in the laborer classification may be permitted toward construction applications. provided that significant and meaningful training is provided and approved by the Illinois Department of Transportation and the Federal Highway Administration. Some offsite training is permissible as long as the training is an integral part of an approved training program and does not comprise a significant part of the overall training.

Except as otherwise noted below, the contractor will be reimbursed 80 cents per hour of training given an employee on this contract in accordance with an approved training program. As approved by the Engineer, reimbursement will be made for training of persons in excess of the number specified herein. This reimbursement will be made even though the contractor receives additional training program funds from other sources, provided such other source does not specifically prohibit the contractor from receiving other reimbursement. Reimbursement for offsite training indicated above may only be made to the contractor where he does one or more of the following and the trainees are concurrently employed on a Federal-aid project; contributes to the cost of the training, provides the instruction to the trainee or pays the trainee's wages during the offsite training period.

No payment shall be made to the contractor if either the failure to provide the required training, or the failure to hire the trainee as a journeyman, is caused by the contractor and evidences a lack of good faith on the part of the contractor in meeting the requirement of this Training Special Provision. It is normally expected that a trainee will begin his training on the project as soon as feasible after start of work utilizing the skill involved and remain on the project as long as training opportunities exist in his work classification or until he has completed his training program.

It is not required that all trainees be on board for the entire length of the contract. A contractor will have fulfilled his responsibilities under this Training Special Provision if he has provided acceptable training to the number of trainees specified. The number trained shall be determined on the basis of the total number enrolled on the contract for a significant period.

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

Trainees will be paid at least 60 percent of the appropriate minimum journeyman's rate specified in the contract for the first half of the training period, 75 percent for the third quarter of the training period, and 90 percent for the last quarter of the training period, unless apprentices or trainees in an approved existing program are enrolled as trainees on this project. In that case, the appropriate rates approved by the Departments of Labor or Transportation in connection with the existing program shall apply to all trainees being trained for the same classification who are covered by this Training Special Provision.

The contractor shall furnish the trainee a copy of the program he will follow in providing the training. The contractor shall provide each trainee with a certification showing the type and length of training satisfactorily complete.

The contractor will provide for the maintenance of records and furnish periodic reports documenting his performance under this Training Special Provision.

METHOD OF MEASUREMENT The unit of measurement is in hours.

<u>BASIS OF PAYMENT</u> This work will be paid for at the contract unit price of 80 cents per hour for TRAINEES. The estimated total number of hours, unit price and total price have been included in the schedule of prices.

20338

TRUCK BED RELEASE AGENT (BDE)

Effective: April 1, 2004

Add the following sentence after the third sentence of the first paragraph of Article 406.14 of the Standard Specifications.

"In addition to the release agent, the Contractor may use a light scatter of manufactured sand (FA 20 or FA 21) evenly distributed over the bed of the vehicle."

80123

WEIGHT CONTROL DEFICIENCY DEDUCTION

Effective: April 1, 2001 Revised: August 1, 2002

The Contractor shall provide accurate weights of materials delivered to the contract for incorporation into the work (whether temporary or permanent) and for which the basis of payment is by weight. These weights shall be documented on delivery tickets which shall identify the source of the material, type of material, the date and time the material was loaded, the contract number, the net weight, the tare weight when applicable and the identification of the transporting vehicle. For aggregates, the Contractor shall have the driver of the vehicle furnish or establish an acceptable alternative to provide the contract number and a copy of the material order to the source for each load. The source is defined as that facility that produces the final material product that is to be incorporated into the contract pay items.

The Department will conduct random, independent vehicle weight checks for material sources according to the procedures outlined in the Documentation Section Policy Statement of the

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

Department's Construction Manual and hereby incorporated by reference. The results of the independent weight checks shall be applicable to all contracts containing this Special Provision. Should the vehicle weight check for a source result in the net weight of material on the vehicle exceeding the net weight of material shown on the delivery ticket by 0.50% (0.70% for aggregates) or more, the Engineer will document the independent vehicle weight check and immediately furnish a copy of the results to the Contractor. No adjustment in pay quantity will be made. Should the vehicle weight check for a source result in the net weight of material shown on the delivery ticket exceeding the net weight of material on the vehicle by 0.50% (0.70% for aggregates) or more, the Engineer will document the independent vehicle weight check and immediately furnish a copy of the results to the Contractor. The Engineer will adjust the net weight shown on the delivery ticket to the checked delivered net weight as determined by the independent vehicle weight check.

The Engineer will also adjust the method of measurement for all contracts for subsequent deliveries of all materials from the source based on the independent weight check. The net weight of all materials delivered to all contracts containing this Special Provision from this source, for which the basis of payment is by weight, will be adjusted by applying a correction factor "A" as determined by the following formula:

$$A = 1.0 - \left(\frac{B - C}{B}\right)$$
; Where $A \le 1.0$; $\left(\frac{B - C}{C}\right) > 0.50\%$ (0.70% for aggregates)

Where A = Adjustment factor

B = Net weight shown on delivery ticket

C = Net weight determined from independent weight check

The adjustment factor will be applied as follows:

Adjusted Net Weight = $A \times Delivery Ticket Net Weight$

The adjustment factor will be imposed until the cause of the deficient weight is identified and corrected by the Contractor to the satisfaction of the Engineer. If the cause of the deficient weight is not identified and corrected within seven (7) calendar days, the source shall cease delivery of all materials to all contracts containing this Special Provision for which the basis of payment is by weight.

Should the Contractor elect to challenge the results of the independent weight check, the Engineer will continue to document the weight of material for which the adjustment factor would be applied. However, provided the Contractor furnishes the Engineer with written documentation that the source scale has been calibrated within seven (7) calendar days after the date of the independent weight check, adjustments in the weight of material paid for will not be applied unless the scale calibration demonstrates that the source scale was not within the specified Department of Agriculture tolerance.

At the Contractor's option, the vehicle may be weighed on a second independent Department of Agriculture certified scale to verify the accuracy of the scale used for the independent weight check.

80048

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

WORK ZONE PUBLIC INFORMATION SIGNS (BDE)

Effective: September 1, 2002 Revised: April 15, 2004

<u>Description</u>. This work shall consist of furnishing, erecting, maintaining, and removing work zone public information signs. The signs shall be erected as shown on the plans and according to Article 702.05(a) of the Standard Specifications.

Camera-ready artwork for the signs will be provided to sign manufacturing companies upon request by contacting the Central Bureau of Operations at 217-782-2076. The sign number is W21-I116-6048.

<u>Basis of Payment</u>. This work will not be paid for separately but shall be considered as included in the cost of the Standard.

80090

WORK ZONE SPEED LIMIT SIGNS (BDE)

Effective: April 2, 2004 Revised: April 15, 2004

Delete Article 702.05(c).

Revise Article 702.05(d) to read:

"(d) Work Zone Speed Limit Signs. Work zone speed limit sign assemblies shall be provided and located as shown on the plans. Two additional assemblies shall be placed 150 m (500 ft) beyond the last entrance ramp for each interchange. The individual signs that make up an assembly may be combined on a single panel. The sheeting for the signs shall be reflective and conform to the requirements of Article 1084.02.

All permanent "SPEED LIMIT" signs located within the work zone shall be removed or covered. This work shall be coordinated with the lane closure(s) by promptly establishing a reduced posted speed zone when the lane closure(s) are put into effect and promptly reinstating the posted speed zone when the lane closure(s) are removed.

The work zone speed limit signs and end work zone speed limit signs shown in advance of and at the end of the lane closure(s) shall be used for the entire duration of the closure(s).

The work zone speed limit signs shown within the lane closure(s) shall only be used when workers are present in the closed lane adjacent to traffic; at all other times, the signs shall be promptly removed or covered. The sign assemblies shown within the lane closure(s) will not be required when the worker(s) are located behind a concrete barrier wall.

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

WORK ZONE TRAFFIC CONTROL (BDE)

Effective: April 2, 2004

Revise the first paragraph of Article 701.07(b) to read:

"(b) Standards 701401 and 701422 will be measured for payment on an each basis only when the traffic control and protection applies to isolated stationary work areas and does not involve or is a part of other protected areas."

Revise the Article 701.07(c) to read:

"(c) Measured As Lump Sum. Traffic control and protection required under Standards 701201, 701206, 701306, 701326, 701336, 701400, 701406, 701421, 701501, 701502, 701601, 701602, 701606, 701701 and 701801 will be measured for payment on a lump sum basis. Traffic control protection required under Standards 701401 and 701422 will be measured for payment on a lump sum basis, except as specified under Article 701.07(b). Where the Contractor's operations result in daily changing, or two or more work areas each of which requires traffic control according to one of the above Standards, each work area installation will not be paid for separately, but shall be included in the lump sum price for the type of protection furnished."

Revise the first paragraph of Article 701.08(a) to read:

"(a) Traffic control and protection will be paid for at the contract unit price each for TRAFFIC CONTROL AND PROTECTION STANDARD 701316; TRAFFIC CONTROL AND PROTECTION STANDARD 701321; TRAFFIC CONTROL AND PROTECTION STANDARD 701401; TRAFFIC CONTROL AND PROTECTION STANDARD 701402; TRAFFIC CONTROL AND PROTECTION STANDARD 701402; TRAFFIC CONTROL AND PROTECTION STANDARD 701411; TRAFFIC CONTROL AND PROTECTION STANDARD 701422; TRAFFIC CONTROL AND PROTECTION STANDARD 701423; or TRAFFIC CONTROL AND PROTECTION STANDARD 701431 at the location specified."

Revise the first paragraph of Article 701.08(b) to read:

"(b) Traffic control and protection indicated in Article 701.07(c) will be paid for at the contract lump sum price for TRAFFIC CONTROL AND PROTECTION STANDARD 701201; TRAFFIC CONTROL AND PROTECTION STANDARD 701206; TRAFFIC CONTROL AND PROTECTION STANDARD 701326; TRAFFIC CONTROL AND PROTECTION STANDARD 701326; TRAFFIC CONTROL AND PROTECTION STANDARD 701400; TRAFFIC CONTROL AND PROTECTION STANDARD 701401; TRAFFIC CONTROL AND PROTECTION STANDARD 701406; TRAFFIC CONTROL AND PROTECTION STANDARD 701421; TRAFFIC CONTROL AND PROTECTION STANDARD 701422; TRAFFIC CONTROL AND PROTECTION STANDARD 701501; TRAFFIC CONTROL AND PROTECTION STANDARD 701601; TRAFFIC CONTROL AND PROTECTION STANDARD 701601."

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

WORK ZONE TRAFFIC CONTROL DEVICES (BDE)

Effective: January 1, 2003 Revised: April 2, 2004

Add the following to Article 702.01 of the Standard Specifications:

"All devices and combinations of devices shall meet the requirements of the National Cooperative Highway Research Program (NCHRP) Report 350 for their respective categories. The categories are as follows:

Category 1 includes small, lightweight, channelizing and delineating devices that have been in common use for many years and are known to be crashworthy by crash testing of similar devices or years of demonstrable safe performance. These include cones, tubular markers, flexible delineators and plastic drums with no attachments. Category 1 devices shall be crash tested and accepted or may be self-certified by the manufacturer.

Category 2 includes devices that are not expected to produce significant vehicular velocity change but may otherwise be hazardous. These include drums and vertical panels with lights, barricades and portable sign supports. Category 2 devices shall be crash tested and accepted for Test Level 3.

Category 3 includes devices that are expected to cause significant velocity changes or other potentially harmful reactions to impacting vehicles. These include crash cushions, truck mounted attenuators and other devices not meeting the definitions of Category 1 or 2. Category 3 devices shall be crash tested and accepted for Test Level 3.

Category 4 includes portable or trailer-mounted devices such as arrow boards, changeable message signs, temporary traffic signals and area lighting supports. Currently, there is no implementation date set for this category and it is exempt from the NCHRP 350 compliance requirement.

The Contractor shall provide a manufacturer's self-certification letter for each Category 1 device and an FHWA acceptance letter for each Category 2 and Category 3 device used on the contract. The letters shall state the device meets the NCHRP 350 requirements for its respective category and test level, and shall include a detail drawing of the device."

Delete the third, fourth and fifth paragraphs of Article 702.03(b) of the Standard Specifications.

Delete the third sentence of the first paragraph of Article 702.03(c) of the Standard Specifications.

Revise the first sentence of the first paragraph of Article 702.03(e) of the Standard Specifications to read:

"Drums shall be nonmetallic and have alternating reflectorized Type AA or Type AP fluorescent orange and reflectorized white horizontal, circumferential stripes."

Add the following to Article 702.03 of the Standard Specifications:

"(h) Vertical Barricades. Vertical barricades may be used in lieu of cones, drums or Type II barricades to channelize traffic."

Desc: Local Road Reconstruction

Sec.: 2001-167R Co.: Cook

Delete the fourth paragraph of Article 702.05(a) of the Standard Specifications.

Revise the sixth paragraph of Article 702.05(a) of the Standard Specifications to read:

"When the work operations exceed four days, all signs shall be post mounted unless the signs are located on the pavement or define a moving or intermittent operation. When approved by the Engineer, a temporary sign stand may be used to support a sign at 1.2 m (5 ft) minimum where posts are impractical. Longitudinal dimensions shown on the plans for the placement of signs may be increased up to 30 m (100 ft) to avoid obstacles, hazards or to improve sight distance, when approved by the Engineer. "ROAD CONSTRUCTION AHEAD" signs will also be required on side roads located within the limits of the mainline "ROAD CONSTRUCTION AHEAD" signs."

Delete all references to "Type 1A barricades" and "wing barricades" throughout Section 702 of the Standard Specifications.

80097

REQUIRED CONTRACT PROVISIONS FEDERAL-AID CONSTRUCTION CONTRACTS

		Pag
l.	General	1
II.	Nondiscrimination	1
III.	Nonsegregated Facilities	3
IV.	Payment of Predetermined Minimum Wage	3
V.	Statements and Payrolls	6
VI.	Record of Materials, Supplies, and Labor	7
VIII.	Safety: Accident Prevention	7
IX.	False Statements Concerning Highway Projects.	7
X.	Implementation of Clean Air Act and Federal	
	Water Pollution Control Act	8
XI.	Certification Regarding Debarment, Suspension,	
	Ineligibility, and Voluntary Exclusion	8
XII.	Certification Regarding Use of Contract Funds for	or
	Lobbying	9

ATTACHMENTS

A. Employment Preference for Appalachian Contracts (included in Appalachian contracts only)

I. GENERAL

- 1. These contract provisions shall apply to all word performed on the contract by the contractor's own organization and with the assistance of workers under the contractor's immediate superintendence and to all work performed on the contract by piecework, station work, or by subcontract.
- 2. Except as otherwise provided for in each section, the contractor shall insert in each subcontract all of the stipulations contained in these Required Contract Provisions, and further require their inclusion in any lower tier subcontract or purchase order that may in turn be made. The Required Contract Provisions shall not be incorporated by reference in any case. The prime contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with these Required Contract Provisions.
- A breach of any of the stipulations contained in these Required Contract Provisions shall be sufficient grounds for termination of the contract.
- 4. A breach of the following clauses of the Required Contract Provisions may also be grounds for debarment as provided in 29 CFR 5.12.

Section I, paragraph 2; Section IV, paragraphs 1, 2, 3, 4 and 7; Section V, paragraphs 1 and 2a through 2q.

- 5. Disputes arising out of the labor standards provisions of Section IV (except paragraph 5) and Section V of these Required Contract Provisions shall not be subject to the general disputes clause of this contract. Such disputes shall be resolved in accordance with the procedures of the U.S. Department of Labor (DOL) as set forth in 29 CFR 5, 6 and 7. Disputes within the meaning of this clause include disputes between the contractor (or any of its subcontractors) and the contracting agency, the DOL, or the contractor's employees or their representatives.
- 6. Selection of Labor: During the performance of this contract, the contractor shall not:
 - a. Discriminate against labor from any other State, possession, or territory of the United States (except for employment preference for Appalachian contracts, when applicable, as specified in Attachment A), or
 - b. Employ convict labor for any purpose within the limits of

the project unless it is labor performed by convicts who are on parole, supervised release, or probation.

II. NONDISCRIMINATION

(Applicable to all Federal-aid construction contracts and to all related subcontracts of \$10,000 or more.)

- 1. Equal Employment Opportunity: Equal employment opportunity (EEO) requirements not to discriminate and to take affirmative action to assure equal opportunity as set forth under laws, executive orders, rules, regulations (28 CFR 35, 29 CFR 1630 and 41 CFR 60 (and orders of the Secretary of Labor as modified by the provisions prescribed herein, and imposed pursuant to 23 U.S.C. 140 shall constitute the EEO and specific affirmative action standards for the contractor's project activities under this contract. The Equal Opportunity Construction Contract Specifications set forth under 41 CFR 60-4.3 and the provisions of the American Disabilities Act of 1990 (42 U.S.C. 12101 et seq.) set forth under 28 CFR 35 and 29 CFR 1630 are incorporated by reference in this contract. In the execution of this contract, the contractor agrees to comply with the following minimum specific requirement activities of EEO:
 - a. The contractor will work with the State highway agency (SHA) and the Federal Government in carrying out EEO obligations and in their review of his/her activities under the contract.
 - b. The contractor will accept as his operating policy the following statement:
 - "It is the policy of this Company to assure that applicants are employed, and that employees are treated during employment, without regard to their race, religion, sex, color, national origin, age or disability. Such action shall include: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship, preapprenticeship, and/or on-the-job-training."
- 2. EEO Officer: The contractor will designate and make known to the SHA contracting officers an EEO Officer who will have the responsibility for an must be capable of effectively administering and promoting an active contractor program of EEO and who must be assigned adequate authority and responsibility to do so.
- 3. Dissemination of Policy: All members of the contractor's staff who are authorized to hire, supervise, promote, and discharge employees, or who recommend such action, or who are substantially involved in such action, will be made fully cognizant of, and will implement, the contractor's EEO policy and contractual responsibilities to provide EEO in each grade and classification of employment. To ensure that the above

Page 1

agreement will be met, the following actions will be taken as a minimum:

- a. Periodic meetings of supervisory and personnel office employees will be conducted before the start of work and then not less often than once every six months, at which time the contractor's EEO policy and its implementation will be reviewed and explained. The meetings will be conducted by the EEO Officer.
- b. All new supervisory or personnel office employees will be given a thorough indoctrination by the EEO Officer, covering all major aspects of the contractor's EEO obligations within thirty days following their reporting for duty with the contractor.
- c. All personnel who are engaged in direct recruitment for the project will be instructed by the EEO Officer in the contractor's procedures for locating and hiring minority group employees.
- d. Notices and posters setting forth the contractor's EEO policy will be placed in areas readily accessible to employees, applicants for employment and potential employees.
- e. The contractor's EEO policy and the procedures to implement such policy will be brought to the attention of employees by means of meetings, employee handbooks, or other appropriate means.
- 4. Recruitment: When advertising for employees, the contractor will include in all advertisements for employees the notation: "An Equal Opportunity Employer." All such advertisements will be placed in publications having a large circulation among minority groups in the area from which the project work force would normally be derived.
 - a. The contractor will, unless precluded by a valid bargaining agreement, conduct systematic and direct recruitment through public and private employees referral sources likely to yield qualified minority group applicants. To meet this requirement, the contractor will identify sources of potential minority group employees, and establish which such identified sources procedures whereby minority group applicants may be referred to the contractor for employment consideration.
 - b. In the event the contractor has a valid bargaining agreement providing for exclusive hiring hall referrals, he is expected to observe the provisions of that agreement to the extent that the system permits the contractor's compliance with EEO contract provisions. (The DOL has held that where implementation of such agreements have the effect of discriminating against minorities or women, or obligates the contractor to do the same, such implementation violates Executive Order 11246, as amended.)
 - c. The contractor will encourage his present employees to refer minority group applicants for employment. Information and procedures with regard to referring minority group applicants will be discussed with employees.
- 5. Personnel Actions: Wages, working conditions, and employee benefits shall be established and administered, and personnel actions of every type, including hiring, upgrading, promotion, transfer, demotion, layoff, and termination, shall be taken without regard to race, color, religion, sex, national origin, age or disability. The following procedures shall be followed:
 - a. The contractor will conduct periodic inspections of project sites to insure that working conditions and employee facilities do not indicate discriminatory treatment of project site personnel.
 - b. The contractor will periodically evaluate the spread of wages paid within each classification to determine any

evidence of discriminatory wage practices.

- c. The contractor will periodically review selected personnel actions in depth to determine whether there is evidence of discrimination. Where evidence is found, the contractor will promptly take corrective action. If the review indicates that the discrimination may extend beyond the actions reviewed, such corrective action shall include all affected persons.
- d. The contractor will promptly investigate all complaints of alleged discrimination made to the contractor in connection with his obligations under this contract, will attempt to resolve such complaints, and will take appropriate corrective action within a reasonable time. If the investigation indicates that the discrimination may affect persons other than the complainant, such corrective action shall include such other persons. Upon completion of each investigation, the contractor will inform every complainant of all of his avenues of appeal.

6. Training and Promotion:

- a. The contractor will assist in locating, qualifying, and increasing the skills of minority group and women employees, and applicants for employment.
- b. Consistent with the contractor's work force requirements and as permissible under Federal and State regulations, the contractor shall make full use of training programs, i.e., apprenticeship, and on-the-job training programs for the geographical area of contract performance. Where feasible, 25 percent of apprentices or trainees in each occupation shall be in their first year of apprenticeship or training. In the event a special provision for training is provided under this contract, this subparagraph will be superseded as indicated in the special provision.
- c. The contractor will advise employees and applicants for employment of available training programs and entrance requirements for each.
- d. The contractor will periodically review the training and promotion potential of minority group and women employees and will encourage eligible employees to apply for such training and promotion.
- 7. Unions: If the contractor relies in whole or in part upon unions as a source of employees, the contractor will use his/her best efforts to obtain the cooperation of such unions to increase opportunities for minority groups and women within the unions, and to effect referrals by such unions of minority and female employees. Actions by the contractor either directly or through a contractor's association acting as agent will include the procedures set forth below:
 - a. The contractor will use best efforts to develop, in cooperation with the unions, joint training programs aimed toward qualifying more minority group members and women for membership in the unions and increasing the skills of minority group employees and women so that they may qualify for higher paying employment.
 - b. The contractor will use best efforts to incorporate an EEO clause into each union agreement to the end that such union will be contractually bound to refer applicants without regard to their race, color, religion, sex, national origin, age or disability.
 - c. The contractor is to obtain information as to the referral practices and policies of the labor union except that to the extent such information is within the exclusive possession of the labor union and such labor union refuses to furnish such information to the contractor, the contractor shall so certify to

the SHA and shall set forth what efforts have been made to obtain such information.

- d. In the event the union is unable to provide the contractor with a reasonable flow of minority and women referrals within the time limit set forth in the collective bargaining agreement, the contractor will, through independent recruitment efforts, fill the employment vacancies without regard to race, color, religion, sex, national origin, age or disability; making full efforts to obtain qualified and/or qualifiable minority group persons and women. (The DOL has held that it shall be no excuse that the union with which the contractor has a collective bargaining agreement providing for exclusive referral failed to refer minority employees.) In the event the union referral practice prevents the contractor from meeting the obligations pursuant to Executive Order 11246, as amended, and these special provisions, such contractor shall immediately notify the SHA.
- 8. Selection of Subcontractors, Procurement of Materials and Leasing of Equipment: The contractor shall not discriminate on the grounds of race, color, religion, sex, national origin, age or disability in the selection and retention of subcontractors, including procurement of materials and leases of equipment.
 - a. The contractor shall notify all potential subcontractors and suppliers of his/her EEO obligations under this contract.
 - b. Disadvantaged business enterprises (DBE), as defined in 49 CFR 23, shall have equal opportunity to compete for and perform subcontracts which the contractor enters into pursuant to this contract. The contractor will use his best efforts to solicit bids from and to utilize DBE subcontractors or subcontractors with meaningful minority group and female representation among their employees. Contractors shall obtain lists of DBE construction firms from SHA personnel.
 - c. The contractor will use his best efforts to ensure subcontractor compliance with their EEO obligations.
- 9. Records and Reports: The contractor shall keep such records as necessary to document compliance with the EEO requirements. Such records shall be retained for a period of three years following completion of the contract work and shall be available at reasonable times and places for inspection by authorized representatives of the SHA and the FHWA.
 - a. The records kept by the contractor shall document the following:
 - (1) The number of minority and non-minority group members and women employed in each work classification on the project;
 - (2) The progress and efforts being made in cooperation with unions, when applicable, to increase employment opportunities for minorities and women;
 - (3) The progress and efforts being made in locating, hiring, training, qualifying, and upgrading minority and female employees; and
 - (4) The progress and efforts being made in securing the services of DBE subcontractors or subcontractors with meaningful minority and female representation among their employees.

b. The contractors will submit an annual report to the SHA each July for the duration of the project, indicating the number of minority, women, and non-minority group employees currently engaged in each work classification required by the contract work. This information is to be reported on Form FHWA-1391. If on-the-job training is being required by special provision, the contractor will be required to collect and report training data.

III. NONSEGREGATED FACILITIES

(Applicable to all Federal-aid construction contracts and to all related subcontracts of \$10,000 or more.)

- a. By submission of this bid, the execution of this contract or subcontract, or the consummation of this material supply agreement or purchase order, as appropriate, the bidder, Federal-aid construction contractor, subcontractor, material supplier, or vendor, as appropriate, certifies that the firm does not maintain or provide for its employees any segregated facilities at any of its establishments, and that the firm does not permit its employees to perform their services at any location, under its control, where segregated facilities are maintained. The firm agrees that a breach of this certification is a violation of the EEO provisions of this contract. The firm further certifies that no employee will be denied access to adequate facilities on the basis of sex or disability.
- b. As used in this certification, the term "segregated facilities" means any waiting rooms, work areas, restrooms and washrooms, restaurants and other eating areas, timeclocks, locker rooms, and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation, and housing facilities provided for employees which are segregated by explicit directive, or are, in fact, segregated on the basis of race, color, religion, national origin, age or disability, because of habit, local custom, or otherwise. The only exception will be for the disabled when the demands for accessibility override (e.g. disabled parking).
- c. The contractor agrees that it has obtained or will obtain identical certification from proposed subcontractors or material suppliers prior to award of subcontracts or consummation of material supply agreements of \$10,000 or more and that it will retain such certifications in its files.

IV. PAYMENT OF PREDETERMINED MINIMUM WAGE

(Applicable to all Federal-aid construction contracts exceeding \$2,000 and to all related subcontracts, except for projects located on roadways classified as local roads or rural minor collectors, which are exempt.)

1. General:

a. All mechanics and laborers employed or working upon the site of the work will be paid unconditionally and not less often than once a week and without subsequent deduction or rebate on any account [except such payroll deductions as are permitted by regulations (29 CFR 3) issued by the Secretary of Labor under the Copeland Act (40 U.S.C. 276c)] the full amounts of wages and bona fide fringe benefits (or cash equivalents thereof) due at time of payment. The payment shall be computed at wage rates not less than those contained in the wage determination of the Secretary of Labor (hereinafter "the wage determination") which is attached hereto and made a part hereof, regardless of any contractual relationship which may be alleged to exist between the

contractor or its subcontractors and such laborers and mechanics. The wage determination (including any additional classifications and wage rates conformed under paragraph 2 of this Section IV and the DOL poster (WH-1321) or Form FHWA-1495) shall be posted at all times by the contractor and its subcontractors at the site of the work in a prominent and accessible place where it can be easily seen by the workers. For the purpose of this Section, contributions made or costs reasonably anticipated for bona fide fringe benefits under Section 1(b)(2) of the Davis-Bacon Act (40 U.S.C. 276a) on behalf of laborers or mechanics are considered wages paid to such laborers or mechanics, subject to the provisions of Section IV, paragraph 3b, hereof. Also, for the purpose of this Section, regular contributions made or costs incurred for more than a weekly period (but not less often than quarterly) under plans, funds, or programs, which cover the particular weekly period, are deemed to be constructively made or incurred during such weekly period. Such laborers and mechanics shall be paid the appropriate wage rate and fringe benefits on the wage determination for the classification of work actually performed, without regard to skill, except as provided in paragraphs 4 and 5 of this Section IV.

- b. Laborers or mechanics performing work in more than one classification may be compensated at the rate specified for each classification for the time actually worked therein, provided, that the employer's payroll records accurately set forth the time spent in each classification in which work is performed.
- c. All rulings and interpretations of the Davis-Bacon Act and related acts contained in 29 CFR 1, 3, and 5 are herein incorporated by reference in this contract.

2. Classification:

- a. The SHA contracting officer shall require that any class of laborers or mechanics employed under the contract, which is not listed in the wage determination, shall be classified in conformance with the wage determination.
- b. The contracting officer shall approve an additional classification, wage rate and fringe benefits only when the following criteria have been met:
- (1) the work to be performed by the additional classification requested is not performed by a classification in the wage determination;
- (2) the additional classification is utilized in the area by the construction industry;
- (3) the proposed wage rate, including any bona fide fringe benefits, bears a reasonable relationship to the wage rates contained in the wage determination; and
- (4) with respect to helpers, when such a classification prevails in the area in which the work is performed.
- c. If the contractor or subcontractors, as appropriate, the laborers and mechanics (if known) to be employed in the additional classification or their representatives, and the contracting officer agree on the classification and wage rate (including the amount designated for fringe benefits where appropriate), a report of the action taken shall be sent by the contracting officer to the DOL, Administrator of the Wage and Hour Division, Employment Standards Administration, Washington, D.C. 20210. The Wage and Hour Administrator, or an authorized representative, will approve, modify, or

disapprove every additional classification action within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.

- d. In the event the contractor or subcontractors, as appropriate, the laborers or mechanics to be employed in the additional classification or their representatives, and the contracting officer do not agree on the proposed classification and wage rate (including the amount designated for fringe benefits, where appropriate), the contracting officer shall refer the question, including the views of all interested parties and the recommendation of the contracting officer, to the Wage and Hour Administrator for determination. Said Administrator, or an authorized representative, will issue a determination within 30 days of receipt and so advised the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.
- e. The wage rate (including fringe benefits where appropriate) determined pursuant to paragraph 2c or 2d of this Section IV shall be paid to all workers performing work in the additional classification from the first day on which work is performed in the classification.

3. Payment of Fringe Benefits:

- a. Whenever the minimum wage rate prescribed in the contract for a class of laborers or mechanics includes a fringe benefit which is not expressed as an hourly rate, the contractor or subcontractors, as appropriate, shall either pay the benefit as stated in the wage determination or shall pay another bona fide fringe benefit or an hourly case equivalent thereof.
- b. If the contractor or subcontractor, as appropriate, does not make payments to a trustee or other third person, he/she may consider as a part of the wages of any laborer or mechanic the amount of any cost reasonably anticipated in providing bona fide fringe benefits under a plan or program, provided that the Secretary of Labor has found, upon the written request of the contractor, that the applicable standards of the Davis-Bacon Act have been met. The Secretary of Labor may require the contractor to set aside in a separate account assets for the meeting of obligations under the plan or program.
- 4. Apprentices and Trainees (Programs of the U.S. DOL) and Helpers:

a. Apprentices:

- (1) Apprentices will be permitted to work at less than the predetermined rate for the work they performed when they are employed pursuant to and individually registered in a bona fide apprenticeship program registered with the DOL, Employment and Training Administration, Bureau of Apprenticeship and Training, or with a State apprenticeship agency recognized by the Bureau, or if a person is employed in his/her first 90 days of probationary employment as an apprentice in such an apprenticeship program, who is not individually registered in the program, but who has been certified by the Bureau of Apprenticeship and Training or a State apprenticeship agency (where appropriate) to be eligible for probationary employment as an apprentice.
- (2) The allowable ratio of apprentices to journeyman-level employees on the job site in any craft classification shall not

be greater than the ratio permitted to the contractor as to the entire work force under the registered program. Any employee listed on a payroll at an apprentice wage rate, who is not registered or otherwise employed as stated above, shall be paid not less than the applicable wage rate listed in the wage determination for the classification of work actually performed. In addition, any apprentice performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. Where a contractor or subcontractor is performing construction on a project in a locality other than that in which its program is registered, the ratios and wage rates (expressed in percentages of the journeyman-level hourly rate) specified in the contractor's or subcontractor's registered program shall be observed.

- (3) Every apprentice must be paid at not less than the rate specified in the registered program for the apprentice's level of progress, expressed as a percentage of the journeyman-level hourly rate specified in the applicable wage determination. Apprentices shall be paid fringe benefits in accordance with the provisions of the apprenticeship program. If the apprenticeship program does not specify fringe benefits, apprentices must be paid the full amount of fringe benefits listed on the wage determination for the applicable classification. If the Administrator for the Wage and Hour Division determines that a different practice prevails for the applicable apprentice classification, fringes shall be paid in accordance with that determination.
- (4) In the event the Bureau of Apprenticeship and Training, or a State apprenticeship agency recognized by the Bureau, withdraws approval of an apprenticeship program, the contractor or subcontractor will no longer be permitted to utilize apprentices at less than the applicable predetermined rate for the comparable work performed by regular employees until an acceptable program is approved.

b. Trainees:

- (1) Except as provided in 29 CFR 5.16, trainees will not be permitted to work at less than the predetermined rate for the work performed unless they are employed pursuant to and individually registered in a program which has received prior approval, evidenced by formal certification by the DOL, Employment and Training Administration.
- (2) The ratio of trainees to journeyman-level employees on the job site shall not be greater than permitted under the plan approved by the Employment and Training Administration. Any employee listed on the payroll at a trainee rate who is not registered and participating in a training plan approved by the Employment and Training Administration shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any trainee performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed.
- (3) Every trainee must be paid at not less than the rate specified in the approved program for his/her level of progress, expressed as a percentage of the journeyman-level hourly rate specified in the applicable wage determination. Trainees shall be paid fringe benefits in accordance with the provisions of the trainee program. If the trainee program does not mention fringe benefits, trainees shall be paid the full amount of fringe benefits listed on the wage determination unless the Administrator of the

Wage and Hour Division determines that there is an apprenticeship program associated with the corresponding journeyman-level wage rate on the wage determination which provides for less than full fringe benefits for apprentices, in which cases such trainees shall receive the same fringe benefits as apprentices.

(4) In the event the Employment and Training Administration withdraws approval of a training program, the contractor or subcontractor will no longer be permitted to utilize trainees at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

c. Helpers:

Helpers will be permitted to work on a project if the helper classification is specified and defined on the applicable wage determination or is approved pursuant to the conformance procedure set forth in Section IV. 2. Any worker listed on a payroll at a helper wage rate, who is not a helper under a approved definition, shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed.

5. Apprentices and Trainees (Programs of the U.S. DOT):

Apprentices and trainees working under apprenticeship and skill training programs which have been certified by the Secretary of Transportation as promoting EEO in connection with Federal-aid highway construction programs are not subject to the requirements of paragraph 4 of this Section IV. The straight time hourly wage rates for apprentices and trainees under such programs will be established by the particular programs. The ratio of apprentices and trainees to journeymen shall not be greater than permitted by the terms of the particular program.

6. Withholding:

The SHA shall upon its own action or upon written request of an authorized representative of the DOL withhold, or cause to be withheld, from the contractor or subcontractor under this contract or any other Federal contract with the same prime contractor or any other Federally-assisted contract subject to Davis-Bacon prevailing wage requirements which is held by the same prime contractor, as much of the accrued payments or advances as may be considered necessary to pay laborers and mechanics, including apprentices, trainee's and helpers, employed by the contractor or any subcontractor the full amount of wages required by the contract. In the event of failure to pay any laborer or mechanic, including any apprentice, trainee, or helper, employed or working on the site of the work, all or part of the wages required by the contract, the SHA contracting officer may, after written notice to the contractor, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds until such violations have ceased.

7. Overtime Requirements:

No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers, mechanics, watchmen, or guards (including apprentices, trainees, and helpers described in paragraphs 4 and 5 above) shall require or permit any laborer, mechanic, watchman, or guard in any workweek in which he/she is employed on such work, to work in excess of 40 hours in such workweek unless such laborer, mechanic, watchman, or guard receives compensation at a rate not less than one-and-one-half times his/her basic rate of pay for all hours worked in excess of 40 hours in such workweek.

8. Violation:

Liability for Unpaid Wages; Liquidated Damages: In the event of any violation of the clause set forth in paragraph 7 above, the contractor and any subcontractor responsible thereof shall be liable to the affected employee for his/her unpaid wages. In addition, such contractor and subcontractor shall be liable to the United States (in the case of work done under contract for the District of Columbia or a territory, to such District or to such territory) for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer, mechanic, watchman, or guard employed in violation of the clause set forth in paragraph 7, in the sum of \$10 for each calendar day on which such employee was required or permitted to work in excess of the standard work week of 40 hours without payment of the overtime wages required by the clause set forth in paragraph 7.

9. Withholding for Unpaid Wages and Liquidated Damages:

The SHA shall; upon its own action or upon written request of any authorized representative of the DOL withhold, or cause to be withheld, from any monies payable on account of work performed by the contractor or subcontractor under any such contract or any other Federal contract with the same prime contractor, or any other Federally-assisted contract subject to the Contract Work Hours and Safety Standards Act, which is held by the same prime contractor, such sums as may be determined to be necessary to satisfy any liabilities of such contractor or subcontractor for unpaid wages and liquidated damages as provided in the clause set forth in paragraph 8 above.

V. STATEMENTS AND PAYROLLS

(Applicable to all Federal-aid construction contracts exceeding \$2,000 and to all related subcontracts, except for projects located on roadways classified as local roads or rural collectors, which are exempt.)

1. Compliance with Copeland Regulations (29 CFR 3):

The contractor shall comply with the Copeland Regulations of the Secretary of Labor which are herein incorporated by reference

- 2. Payrolls and Payroll Records:
 - a. Payrolls and basic records relating thereto shall be maintained by the contractor and each subcontractor during the course of the work and preserved for a period of 3 years from the date of completion of the contract for all laborers, mechanics, apprentices, trainees, watchmen, helpers, and guards working at the site of the work.
 - b. The payroll records shall contain the name, social security number, and address of each such employee; his or her correct classification; hourly rates of wages paid (including rates of contributions or costs anticipated for bona fide fringe benefits or cash equivalent thereof the types described in Section 1(b)(2)(B) of the Davis Bacon Act); daily and weekly number of hours worked; deductions made; and actual wages paid. In addition, for Appalachian contracts, the payroll records shall contain a notation indicating whether the employee does, or does not, normally reside in the labor area as defined in Attachment A, paragraph 1. Whenever the Secretary of Labor, pursuant to Section IV, paragraph 3b, has found that the wages of any laborer or mechanic include the amount of any costs reasonably anticipated in providing benefits under a plan

or program described in Section 1(b)(2)(B) of the Davis Bacon Act, the contractor and each subcontractor shall maintain records which show that the commitment to provide such benefits is enforceable, that the plan or program is financially responsible, that the plan or program has been communicated in writing to the laborers or mechanics affected, and show the cost anticipated or the actual cost incurred in providing benefits. Contractors or subcontractors employing apprentices or trainees under approved programs shall maintain written evidence of the registration of apprentices and trainees, and ratios and wage rates prescribed in the applicable programs.

c. Each contractor and subcontractor shall furnish, each week in which any contract work is performed, to the SHA resident engineer a payroll of wages paid each of its employees (including apprentices trainees, and helpers, described in Section IV, paragraphs 4 and 5, and watchmen and guards engaged on work during the preceding weekly payroll period).

The payroll submitted shall set out accurately and completely all of the information required to be maintained under paragraph 2b of this Section V.

This information may be submitted in any form desired. Optional Form WH-347 is available for this purpose and may be purchased from the Superintendent of Documents (Federal stock number 029-005-0014-1), U.S. Government Printing Office, Washington, D.C. 20402. The prime contractor is responsible for the submission of copies of payrolls by all suncontractors.

- d. Each payroll submitted shall be accompanied by a "Statement of Compliance," signed by the Contractor or subcontractor or his/her agent who pays or supervises the payment of the persons employed under the contract and shall certify the following:
- (1) that the payroll for the payroll period contains the information required to be maintained under paragraph 2b of this Section V and that such information is correct and complete:
- (2) that such laborer or mechanic (including each helper, apprentice, and trainee) employed on the contract during the payroll period has been paid the full weekly wages earned, without rebate, either directly or indirectly, and that no deductions have been made either directly or indirectly from the full wages earned, other than permissible deductions as set forth in the Regulations, 29 CFR 3;
- (3) that each laborer or mechanic has been paid not less that the applicable wage rate and fringe benefits or cash equivalent for the classification of worked performed, as specified in the applicable wage determination incorporated into the contract.
- e. The weekly submission of a properly executed certification set forth on the reverse side of Optional Form WH-347 shall satisfy the requirement for submission of the "Statement of Compliance" required by paragraph 2d of this Section V.
- f. The falsification of any of the above certifications may subject the contractor to civil or criminal prosecution under 18 U/S. C. 1001 and 31 U.S.C. 231.
- g. The contractor or subcontractor shall make the records required under paragraph 2b of this Section V available for

inspection, copying, or transcription by authorized representatives of the SHA, the FHWA, or the DOL, and shall permit such representatives to interview employees during working hours on the job. If the contractor or subcontractor fails to submit the required records or to make them available, the SHA, the FHWA, the DOL, or all may, after written notice to the contractor, sponsor, applicant, or owner, take such actions as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds. Furthermore, failure to submit the required records upon request or to make such records available may be grounds for debarment action pursuant to 29 CFR 5.12.

VI. RECORD OF MATERIALS, SUPPLIES, AND LABOR

- 1. On all federal-aid contracts on the national highway system, except those which provide solely for the installation of protective devices at railroad grade crossings, those which are constructed on a force account or direct labor basis, highway beautification contracts, and contracts for which the total final construction cost for roadway and bridge is less than \$1,000,000 (23 CFR 635) the contractor shall:
 - a. Become familiar with the list of specific materials and supplies contained in Form FHWA-47, "Statement of Materials and Labor Used by Contractor of Highway Construction Involving Federal Funds," prior to the commencement of work under this contract.
 - b. Maintain a record of the total cost of all materials and supplies purchased for and incorporated in the work, and also of the quantities of those specific materials and supplies listed on Form FHWA-47, and in the units shown on Form FHWA-47.
 - c. Furnish, upon the completion of the contract, to the SHA resident engineer on /Form FHWA-47 together with the data required in paragraph 1b relative to materials and supplies, a final labor summary of all contract work indicating the total hours worked and the total amount earned.
- 2. At the prime contractor's option, either a single report covering all contract work or separate reports for the contractor and for each subcontract shall be submitted.

VII. SUBLETTING OR ASSIGNING THE CONTRACT

- 1. The contractor shall perform with its own organization contract work amounting to not less than 30 percent (or a greater percentage if specified elsewhere in he contract) of the total original contract price, excluding any specialty items designated by the State. Specialty items may be performed by subcontract and the amount of any such specialty items performed may be deducted form the total original contract price before computing the amount of work required to be performed by the contractor's own organization (23 CFR 635).
 - a. "Its own organization" shall be construed to include only workers employed and paid directly by the prime contractor and equipment owned or rented by the prime contractor, with or without operators. Such term does not include employees or equipment of a subcontractor, assignee, or agent of the prime contractor.
 - b. "Specialty Items" shall be construed to be limited to work that requires highly specialized knowledge, abilities, or equipment not ordinarily available in the type of contracting organizations qualified and expected to bid on the contract as a

whole and in general are to be limited to minor components of the overall contract.

- 2. The contract amount upon which the requirements set forth in paragraph 1 of Section VII is computed includes the cost of material and manufactured products which are to be purchased or produced by the contractor under the contract provisions.
- 3. The contractor shall furnish (a) a competent superintendent or supervisor who is employed by the firm, has full authority to direct performance of the work in accordance with the contract requirements, and is in charge of all construction operations (regardless of who performs the work) and (b) such other of its own organizational resources (supervision, management, and engineering services) as the SHA contracting officer determines is necessary to assure the performance of the contract.
- 4. No portion of the contract shall be sublet, assigned or otherwise disposed of except with the written consent of the SHA contracting officer, or authorized representative, and such consent when given shall not be construed to relieve the contractor of any responsibility for the fulfillment of the contract.

Written consent will be given only after the SHA has assured that each subcontract is evidenced in writing and that it contains all pertinent provisions and requirements of the prime contract.

VIII. SAFETY: ACCIDENT PREVENTION

- 1. In the performance of this contract the contractor shall comply with all applicable Federal, State, and local laws governing safety, health, and sanitation (23 CFR 635). The contractor shall provide all safeguards, safety devices and protective equipment and take any other needed actions as it determines, or as the SHA contracting officer may determine, to be reasonably necessary to protect the life and health of employees on the job and the safety of the public and to protect property in connection with the performance of the work covered by the contract.
- 2. It is a condition of this contract, and shall be made a condition of each subcontract, which the contractor enters into pursuant to this contract, that the contractor and any subcontractor shall not permit any employee, in performance of the contract, to work in surroundings or under conditions which are unsanitary, hazardous or dangerous to his/her health or safety, as determined under construction safety and health standards (29 CFR 1926) promulgated by the Secretary of Labor, in accordance with Section 107 of the Contract Work Hours and Safety Standards Act (40 U.S. C. 333).
- 3. Pursuant to 29 CFR 1926.3, it is a condition of this contract that the Secretary of Labor or authorized representative thereof, shall have right of entry to any site of contract performance to inspect or investigate the matter of compliance with the construction safety and health standards and to carry out the duties of the Secretary under Section 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C. 333).

IX. FALSE STATEMENTS CONCERNING HIGHWAY PROJECTS

In order to assure high quality and durable construction in conformity with approved plans and specifications and a high degree of reliability on statements and representations made by engineers, contractors, suppliers, and workers on Federal-aid highway projects, it is essential that all persons concerned with the project perform their functions as carefully, thoroughly, and honestly as possible. Willful falsification,

distortion, or misrepresentation with respect to any facts related to the project is a violation of Federal law. To prevent any misunderstanding regarding the seriousness of these and similar acts, the following notice shall be posted on each Federal-aid highway project (23 CFR 635) in one or more places where it is readily available to all persons concerned with the project:

NOTICE TO ALL PERSONNEL ENGAGED ON FEDERAL-AID HIGHWAY PROJECTS

18 U.S.C. 1020 reads as follows:

"Whoever, being an officer, agent or employee of the United States, or of any State or Territory, or whoever, whether a person, association, firm, or corporation, knowingly makes any false statement, false representation, or false report as to the character, quality, quantity, or cost of the material used or to be used, or the quantity or quality of the work performed or to be performed, or the cost thereof in connection with the submission of plans, maps, specifications, contracts, or costs of construction on any highway or related project submitted for approval to the Secretary of Transportation; or

Whoever knowingly makes any false statement, false representation, false report or false claim with respect to the character, quality, quantity, or cost of any work performed or to be performed, or materials furnished or to be furnished, in connection with the construction of any highway or related project approved by the Secretary of Transportation; or

Whoever knowingly makes any false statement or false representation as to material fact in any statement, certificate, or report submitted pursuant to provisions of the Federal-aid Roads Act approved July 1, 1916, (39 Stat. 355), as amended and supplemented:

Shall be fined not more than \$10,000 or imprisoned not more than 5 years or both."

X. IMPLEMENTATION OF CLEAN AIR ACT AND FEDERAL WATER POLLUTION CONTROL ACT

(Applicable to all Federal-aid construction contracts and to all related subcontracts of \$100,000 or more).

By submission of this bid or the execution of this contract, or subcontract, as appropriate, the bidder, Federal-aid construction contractor, or subcontractor, as appropriate, will be deemed to have stipulated as follows:

- 1. That any facility that is or will be utilized in the performance of this contract, unless such contract is exempt under the Clean Air Act, as amended (42 U.S.C. 1857 et seq., as amended by Pub.L. 91-604), and under the Federal Water Pollution Control Act, as amended (33 U.S.C. 1251 et seq., as amended by Pub.L. 92-500), Executive Order 11738, and regulations in implementation thereof (40 CFR 15) is not listed, on the date of contract award, on the U.S. Environmental Protection Agency (EPA) List of Violating Facilities pursuant to 40 CFR 15.20.
- 2. That the firm agrees to comply and remain in compliance with all the requirements of Section 114 of the Clean Air Act and Section 308 of the Federal Water Pollution Control Act and all regulations and guidelines listed thereunder.
- 3. That the firm shall promptly notify the SHA of the receipt of

any communication from the Director, Office of Federal Activities, EPA indicating that a facility that is or will be utilized for the contract is under consideration to be listed on the EPA List of Violating Facilities.

4. That the firm agrees to include or cause to be included the requirements of paragraph 1 through 4 of this Section X in every nonexempt subcontract, and further agrees to take such action as the government may direct as a means of enforcing such requirements.

XI. CERTIFICATION REGARDING DEBARMENT, SUSPENSION, INCLIGIBILITY AND VOLUNTARY EXCLUSION

1. Instructions for Certification - Primary Covered Transactions:

(Applicable to all Federal-aid contracts - 49 CFR 29)

- a. By signing and submitting this proposal, the prospective primary participant is providing the certification set out below.
- b. The inability of a person to provide the certification set out below will not necessarily result in denial of participation in this covered transaction. The prospective participant shall submit an an explanation of why it cannot provide the certification set out below. The certification or explanation will be considered in connection with the department or agency's determination whether to enter into this transaction. However, failure of the prospective primary participant to furnish a certification or an explanation shall disqualify such a person from participation in this transaction.
- c. The certification in this clause is a material representation of fact upon which reliance was placed when the department or agency determined to enter into this transaction. If it is later determined that the prospective primary participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the department or agency may terminate this transaction for cause of default.
- d. The prospective primary participant shall provide immediate written notice to the department or agency to whom this proposal is submitted if any time the prospective primary participant learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances.
- e. The terms "covered transaction," "debarred," "suspended," "ineligible,""lower tier covered transaction," "participant," "person," "primary covered transaction," "principal," "proposal," and "voluntarily excluded," as used in this clause, have the meanings set out in the Definitions and Coverage sections of rules implementing Executive Order 12549. You may contact the department or agency to which this proposal is submitted for assistance in obtaining a copy of those regulations.
- f. The prospective primary participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency entering into this transaction.
- g. The prospective primary participant further agrees by submitting this proposal that it will include the clause titled

"Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transaction," provided by the department or agency entering into this covered transaction, without modification in all lower tier covered transactions and in all solicitations for lower tier covered transactions.

- h. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant may decide the method and frequency by which it determines the eligibility of its principals. Each participant may, but is not required to, check the nonprocurement portion of the "Lists of Parties Excluded from Federal Procurement or Nonprocurement Programs" (Nonprocurement List) which is compiled by the General Services Administration.
- i. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.
- j. Except for transactions authorized under paragraph f of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department or agency may terminate this transaction for cause or default.

Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Primary Covered Transactions

- 1. The prospective primary participant certifies to the best of its knowledge and belief, that it and its principals:
 - a. Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any Federal department or agency;
 - b. Have not within a 3-year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;
 - c. Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or local) with commission of any of the offenses enumerated in paragraph 1b of this certification; and
 - d. Have not within a 3-year period preceding this application/proposal had one or more public transactions (Federal, State or local) terminated for cause or default.
- 2. Where the prospective primary participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

2. Instructions for Certification - Lower Tier Covered Transactions:

(Applicable to all subcontracts, purchase orders and other lower tier transactions of \$25,000 or more - 49 CFR 29)

- a. By signing and submitting this proposal, the prospective lower tier is providing the certification set out below.
- b. The certification in this clause is a material representation of fact upon which reliance was placed when this transaction was entered into. If it is later determined that the prospective lower tier participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the department, or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment.
- c. The prospective lower tier participant shall provide immediate written notice to the person to which this proposal is submitted if at any time the prospective lower tier participant learns that its certification was erroneous by reason of changed circumstances.
- d. The terms "covered transaction," "debarred," "suspended," "ineligible," "primary covered transaction," "participant," "person," "principal," "proposal," and "voluntarily excluded," as used in this clause, have the meanings set out in the Definitions and Coverage sections of rules implementing Executive Order 12549. You may contact the person to which this proposal is submitted for assistance in obtaining a copy of those regulations.
- e. The prospective lower tie participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency with which this transaction originated.
- f. The prospective lower tier participant further agrees by submitting this proposal that it will include this clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transaction," without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions.
- g. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant may decide the method and frequency by which it determines the eligibility of its principals. Each participant may, but is not required to, check the Nonprocurement List.
- h. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealing.
- i. Except for transactions authorized under paragraph e of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily

excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment.

Certification Regarding Debarment, Suspension, Ineligibility And Voluntary Exclusion-Lower Tier Covered Transactions:

- 1. The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency.
- 2. Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

XII. CERTIFICATION REGARDING USE OF CONTRACT FUNDS FOR LOBBYING

(Applicable to all Federal-aid construction contracts and to all related subcontracts which exceed \$100,000 - 49 CFR 20)

- 1. The prospective participant certifies, by signing and submitting this bid or proposal, to the best of his or her knowledge and belief, that:
 - a. No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.
 - b. If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.
- 2. This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by 31 U.S.C. 1352. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.
- 3. The prospective participant also agrees by submitting his or her bid or proposal that he or she shall require that the language of this certification be included in all lower tier subcontracts, which exceed \$100,000 and that all such recipients shall certify and disclose accordingly.

MINIMUM WAGES FOR FEDERAL AND FEDERALLY ASSISTED CONSTRUCTION CONTRACTS

This project is funded, in part, with Federal-aid funds and, as such, is subject to the provisions of the Davis-Bacon Act of March 3, 1931, as amended (46 Sta. 1494, as amended, 40 U.S.C. 276a) and of other Federal statutes referred to in a 29 CFR Part 1, Appendix A, as well as such additional statutes as may from time to time be enacted containing provisions for the payment of wages determined to be prevailing by the Secretary of Labor in accordance with the Davis-Bacon Act and pursuant to the provisions of 29 CFR Part 1. The prevailing rates and fringe benefits shown in the General Wage Determination Decisions issued by the U.S. Department of Labor shall, in accordance with the provisions of the foregoing statutes, constitute the minimum wages payable on Federal and federally assisted construction projects to laborers and mechanics of the specified classes engaged on contract work of the character and in the localities described therein.

General Wage Determination Decisions, modifications and supersedes decisions thereto are to be used in accordance with the provisions of 29 CFR Parts 1 and 5. Accordingly, the applicable decision, together with any modifications issued, must be made a part of every contract for performance of the described work within the geographic area indicated as required by an applicable DBRA Federal prevailing wage law and 29 CFR Part 5. The wage rates and fringe benefits contained in the General Wage Determination Decision

NOTICE

The most current **General Wage Determination Decisions** (wage rates) are available on the IDOT web site. They are located on the Letting and Bidding page at http://www.dot.il.gov/desenv/delett.html.

In addition, ten (10) days prior to the letting, the applicable Federal wage rates will be e-mailed to subscribers. It is recommended that all contractors subscribe to the Federal Wage Rates List or the Contractor's Packet through IDOT's subscription service.

PLEASE NOTE: if you have already subscribed to the Contractor's Packet you will automatically receive the Federal Wage Rates.

The instructions for subscribing are at http://www.dot.il.gov/desenv/subsc.html.

If you have any questions concerning the wage rates, please contact IDOT's Chief Contract Official at 217-782-7806.